

FIG. 1a

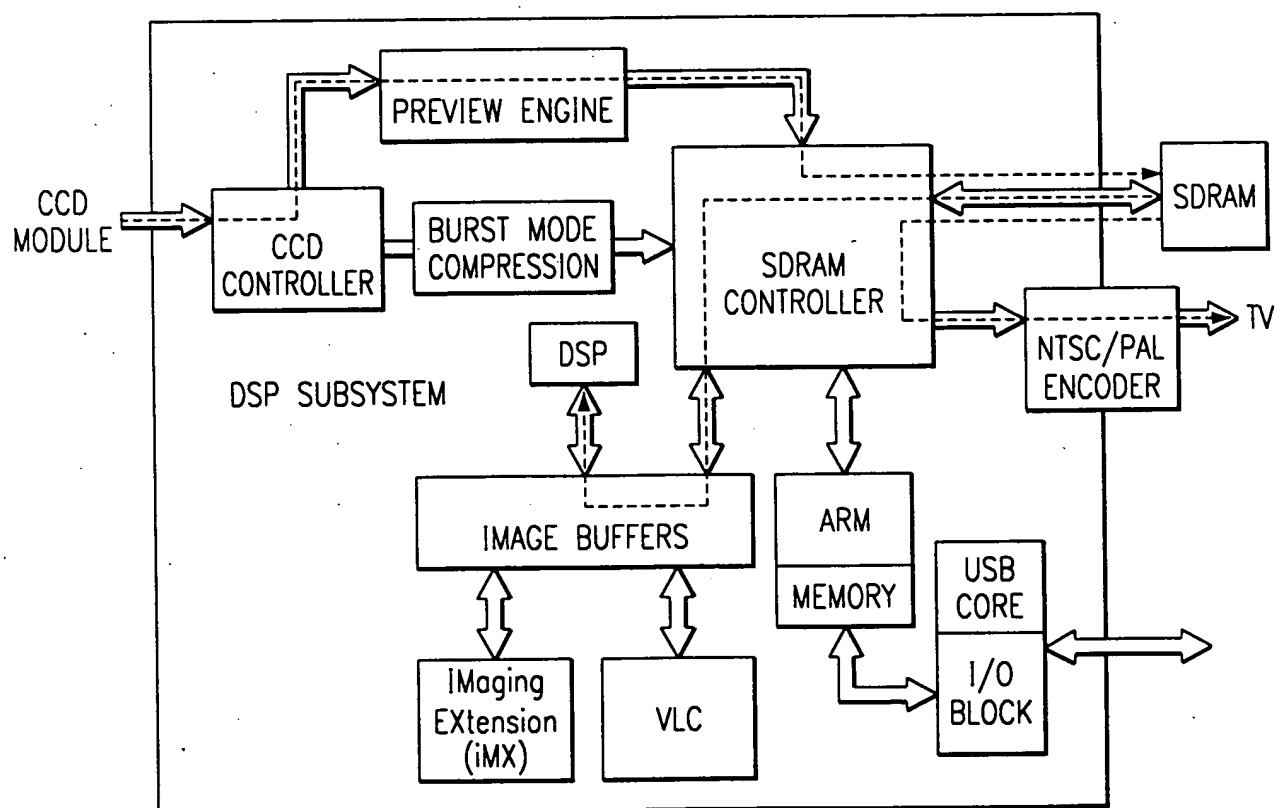
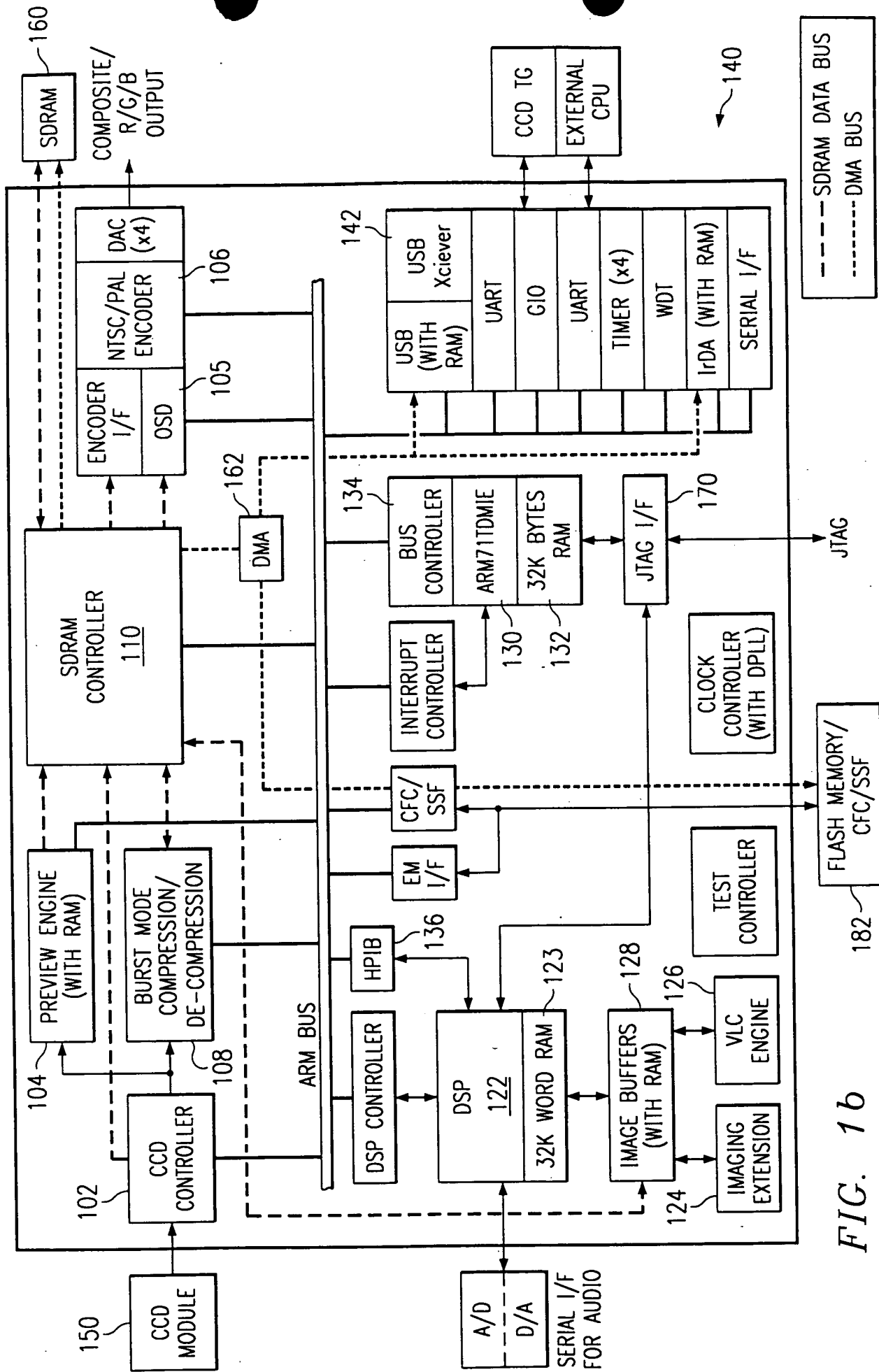


FIG. 2



000001 2576450

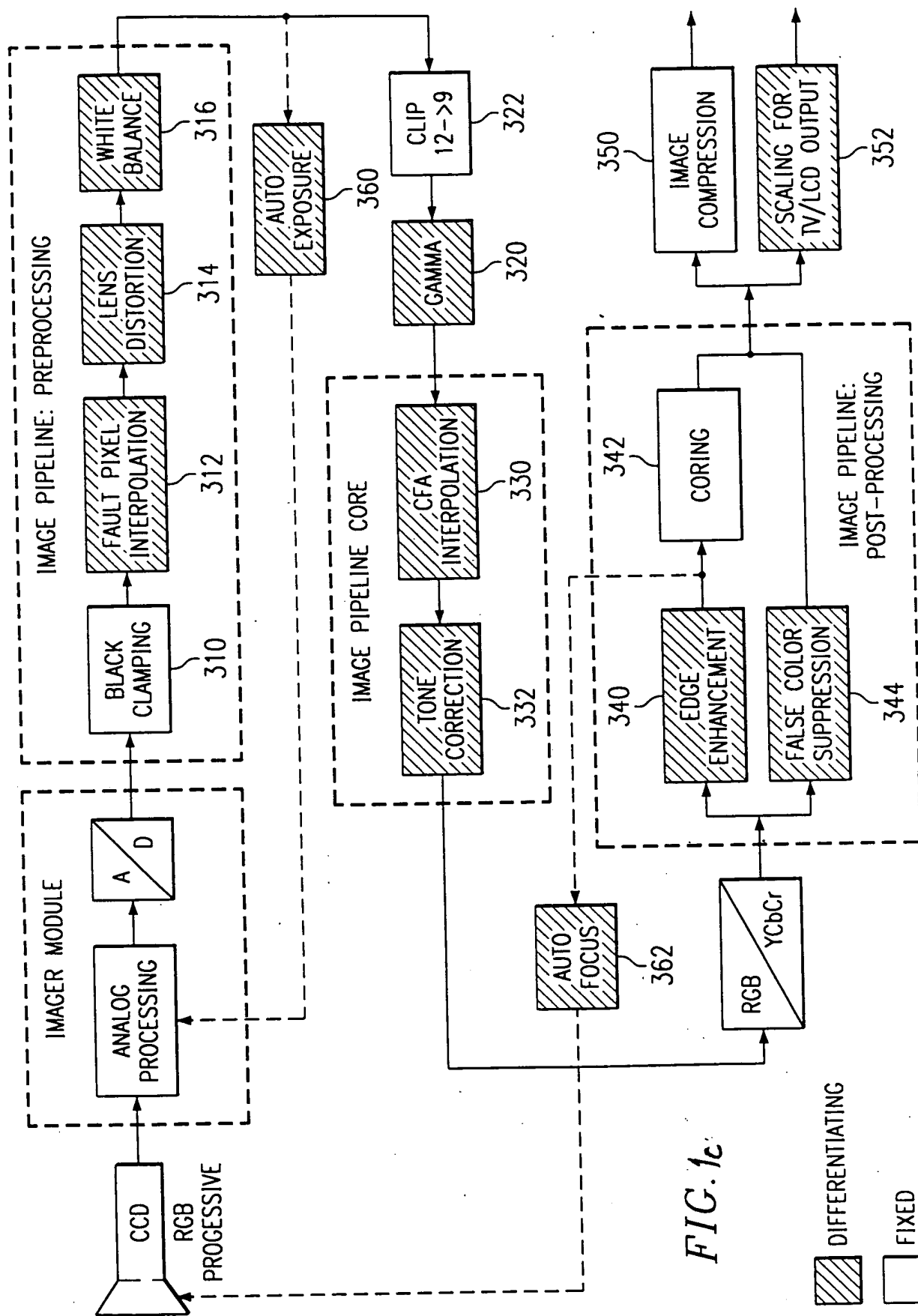
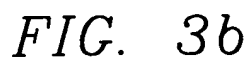
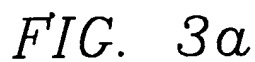


FIG. 1c



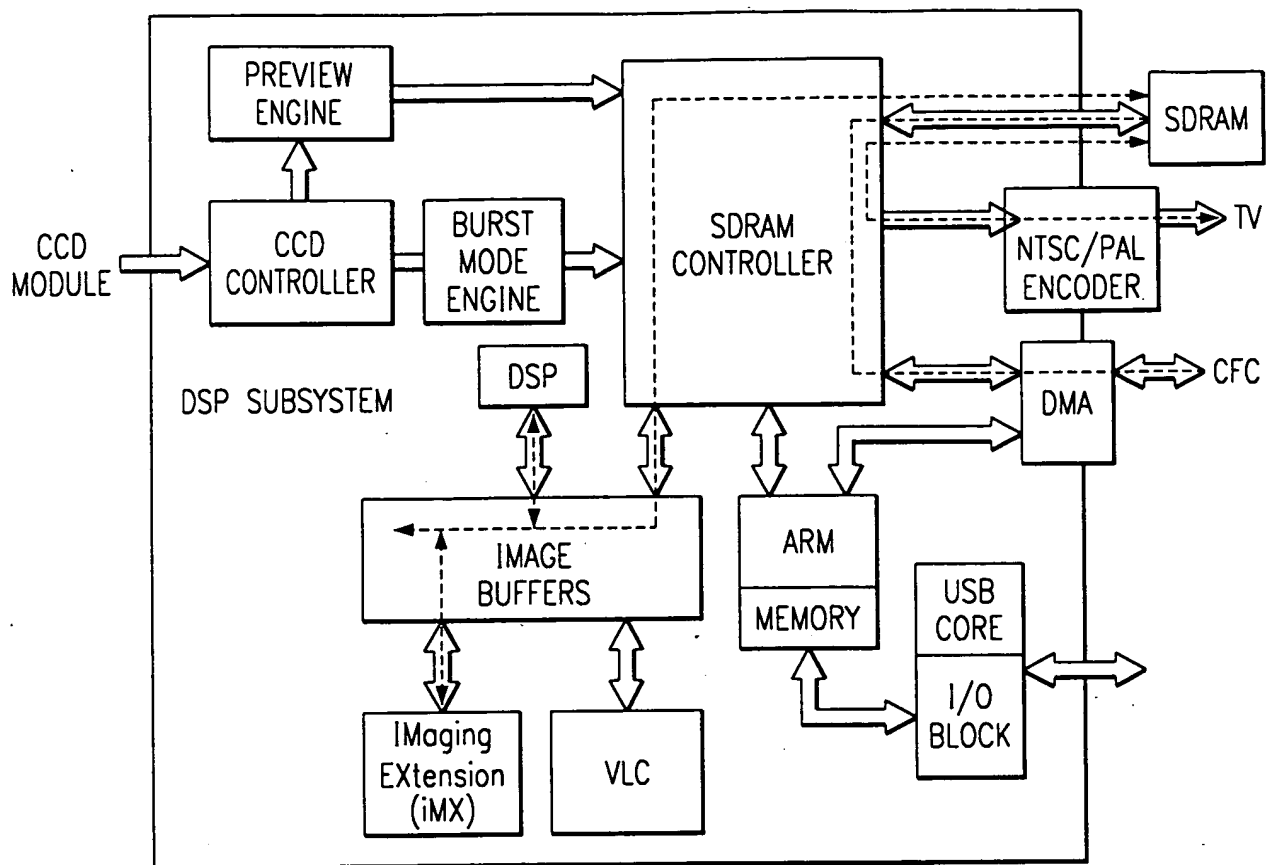


FIG. 4

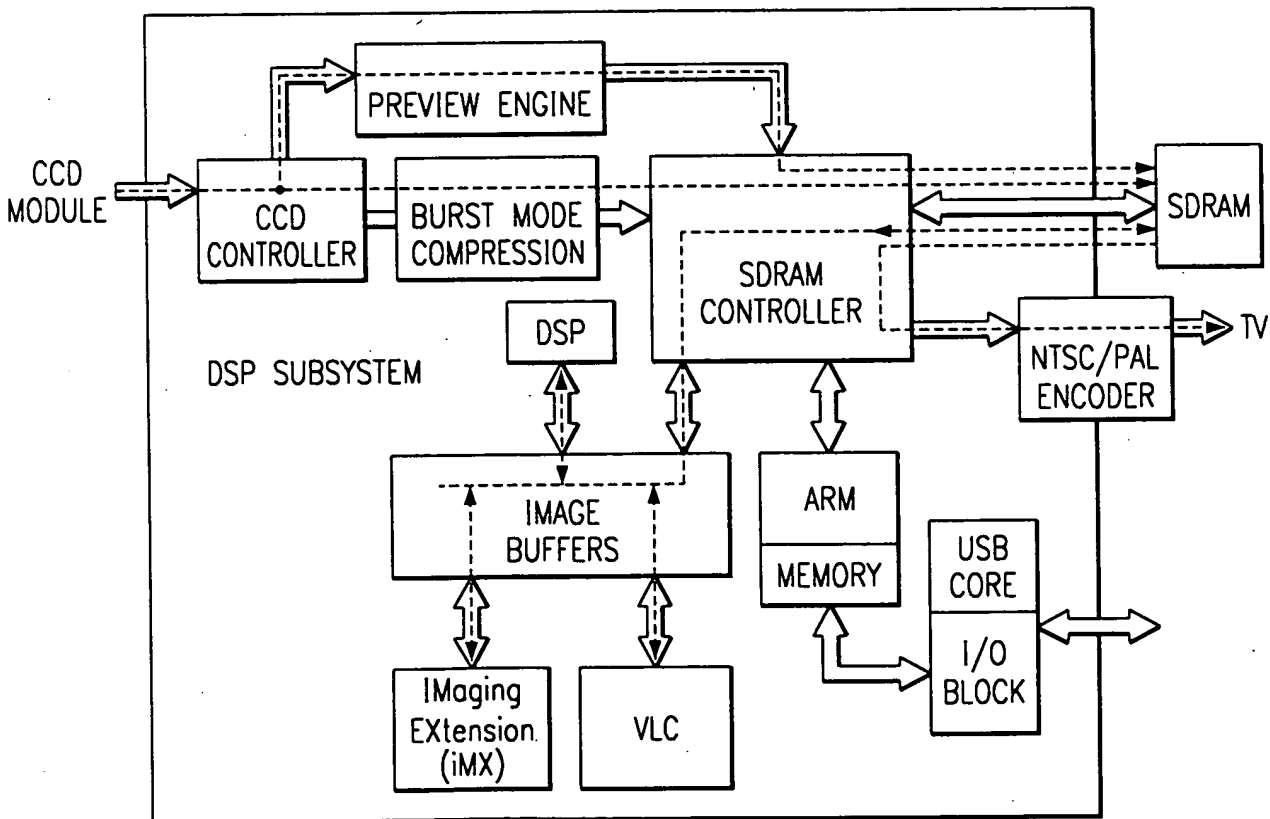


FIG. 5

09745132-12000

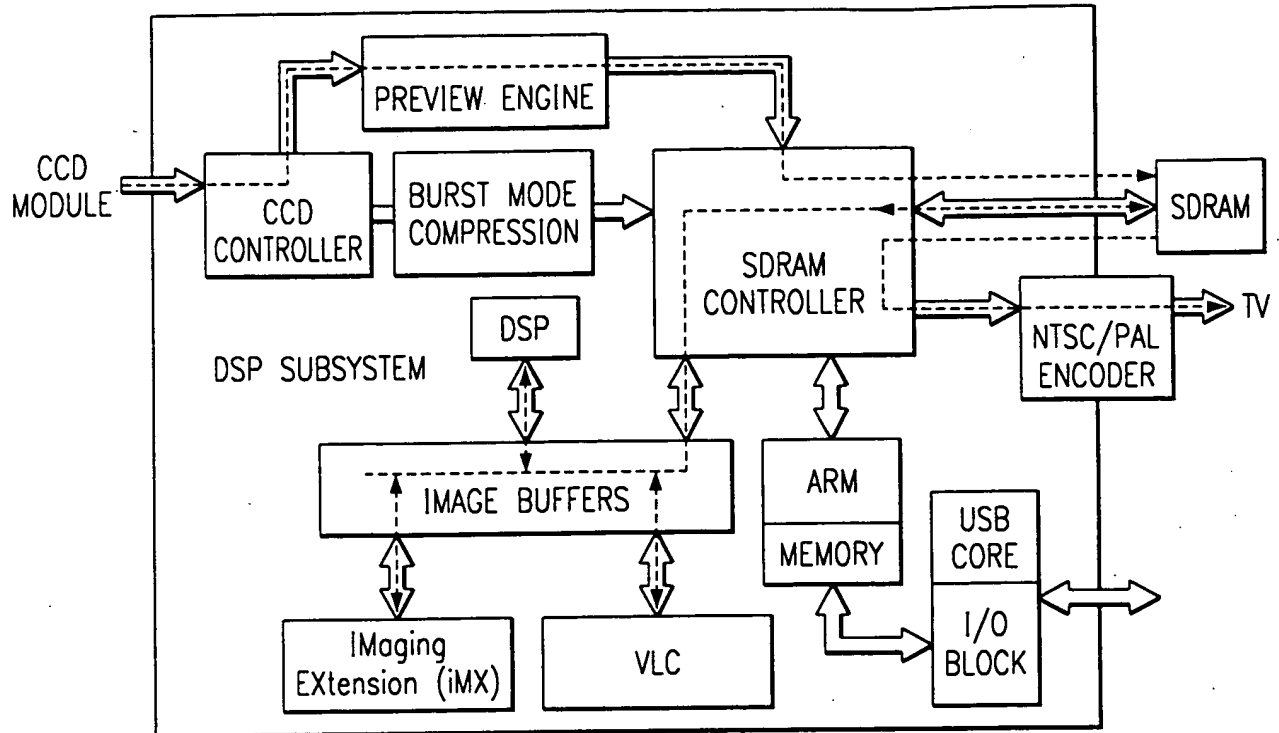


FIG. 6

R	G	R	G
G	B	G	B
R	G	R	G
G	B	G	B

FIG. 7a

Ye	Cy	Ye	Cy
G	Mg	G	Mg
Ye	Cy	Ye	Cy
G	Mg	G	Mg

FIG. 7b

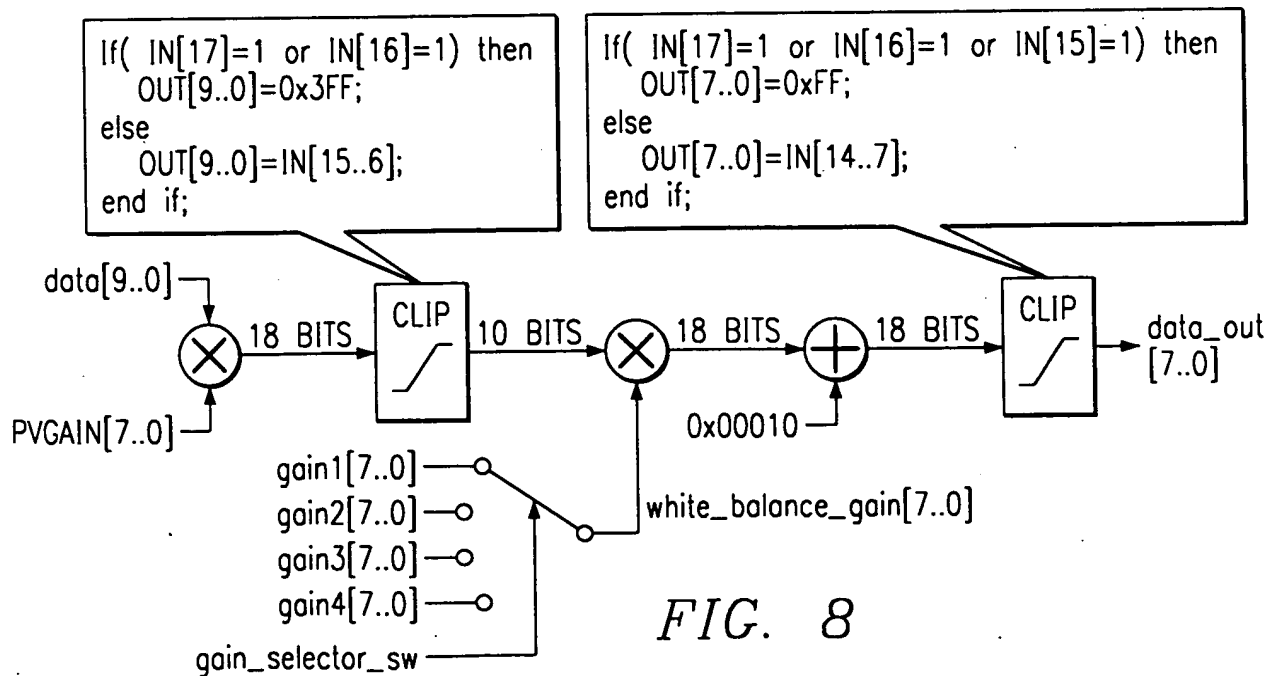
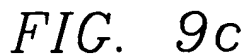
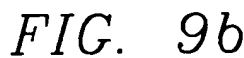
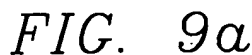


FIG. 8



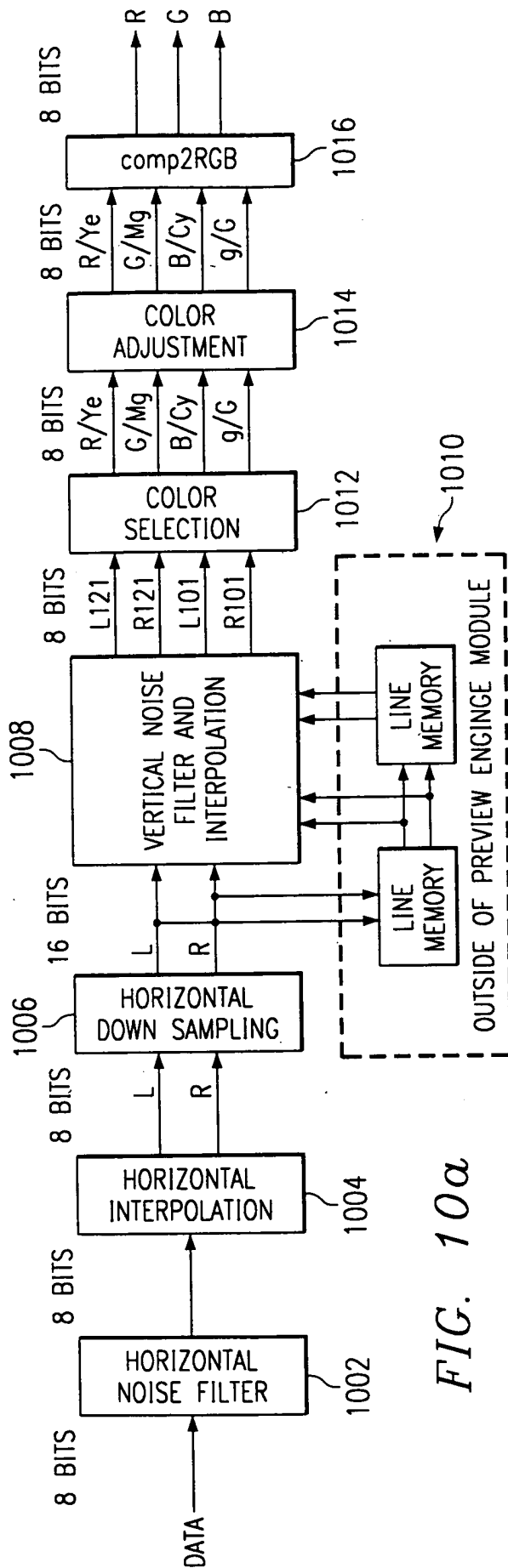


FIG. 10a

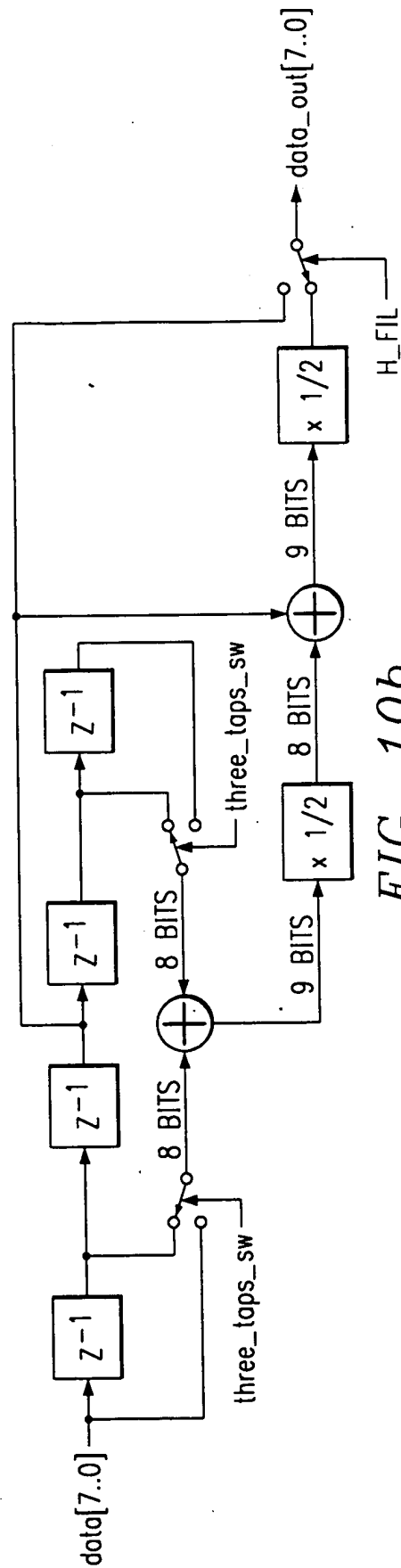


FIG. 10b



FIG. 10c

$$g_{12} = \frac{G_{11} + G_{13}}{2}$$


## OUTPUT OF HORIZONTAL INTERPOLATION

g <sub>01</sub>	G <sub>02</sub>	g <sub>03</sub>
B <sub>01</sub>	b <sub>02</sub>	B <sub>03</sub>

r <sub>11</sub>	R <sub>12</sub>	r <sub>13</sub>
G <sub>11</sub>	g <sub>12</sub>	G <sub>13</sub>

g <sub>21</sub>	g <sub>22</sub>	g <sub>23</sub>
B <sub>21</sub>	B <sub>22</sub>	B <sub>23</sub>

VERTICAL INTERPOLATION

r <sub>01</sub>	r <sub>02</sub>	r <sub>03</sub>
g <sub>01</sub>	G <sub>02</sub>	g <sub>03</sub>
B <sub>01</sub>	b <sub>02</sub>	B <sub>03</sub>

$$b_{12} = \frac{b_{02} + b_{22}}{2}$$

r <sub>11</sub>	R <sub>12</sub>	r <sub>13</sub>
G <sub>11</sub>	g <sub>12</sub>	G <sub>13</sub>
b <sub>11</sub>	b <sub>12</sub>	b <sub>13</sub>

SIMPLE MODE

r <sub>21</sub>	r <sub>22</sub>	r <sub>23</sub>
g <sub>21</sub>	g <sub>22</sub>	g <sub>23</sub>
B <sub>21</sub>	B <sub>22</sub>	B <sub>23</sub>

COLOR ADJUSTMENT  
(NORMAL MODE)

$\overline{r}_{01}$	$\overline{r}_{02}$	$\overline{r}_{03}$
g <sub>01</sub>	G <sub>02</sub>	g <sub>03</sub>
B <sub>01</sub>	b <sub>02</sub>	B <sub>03</sub>

$$\overline{b}_{12} = \frac{b_{02} - G_{02} + b_{22} - G_{22}}{2} - g_{12}$$

r <sub>11</sub>	R <sub>12</sub>	r <sub>13</sub>
G <sub>11</sub>	g <sub>12</sub>	G <sub>13</sub>
$\overline{b}_{11}$	$\overline{b}_{12}$	$\overline{b}_{13}$

r <sub>01</sub>	R <sub>02</sub>	r <sub>03</sub>
g <sub>01</sub>	G <sub>02</sub>	g <sub>03</sub>
B <sub>01</sub>	b <sub>02</sub>	B <sub>03</sub>

r <sub>11</sub>	R <sub>12</sub>	r <sub>13</sub>
G <sub>11</sub>	g <sub>12</sub>	G <sub>13</sub>
B <sub>11</sub>	b <sub>12</sub>	B <sub>13</sub>

$\overline{r}_{21}$	$\overline{r}_{22}$	$\overline{r}_{23}$
g <sub>21</sub>	g <sub>22</sub>	g <sub>23</sub>
B <sub>21</sub>	B <sub>22</sub>	B <sub>23</sub>

r <sub>21</sub>	R <sub>22</sub>	r <sub>23</sub>
g <sub>21</sub>	g <sub>22</sub>	g <sub>23</sub>
B <sub>21</sub>	B <sub>22</sub>	B <sub>23</sub>

FIG. 10e

## OUTPUT OF HORIZONTAL INTERPOLATION

Ye00	cy00	ye01	Cy01	Ye02	cy02
G10	mg00	g11	Mg11	G12	mg12
Ye20	cy20	ye21	Cy21	Ye22	cy22

VERTICAL  
INTERPOLATION

Ye00	cy00	ye01	Cy01	Ye02	cy02
g00	mg00	g01	mg01	g02	mg02
ye10	cy10	ye11	cy11	ye12	cy12
G10	mg10	g11	Mg11	G12	mg12
Ye20	cy20	ye21	Cy21	Ye22	cy22
g20	mg20	g21	mg21	g22	mg22

$$ye_{11} = \frac{ye_{01} + ye_{21}}{2}$$

$$cy_{11} = \frac{Cy_{01} + Cy_{21}}{2}$$

## SIMPLE MODE

COLOR ADJUSTMENT  
(NORMAL MODE)

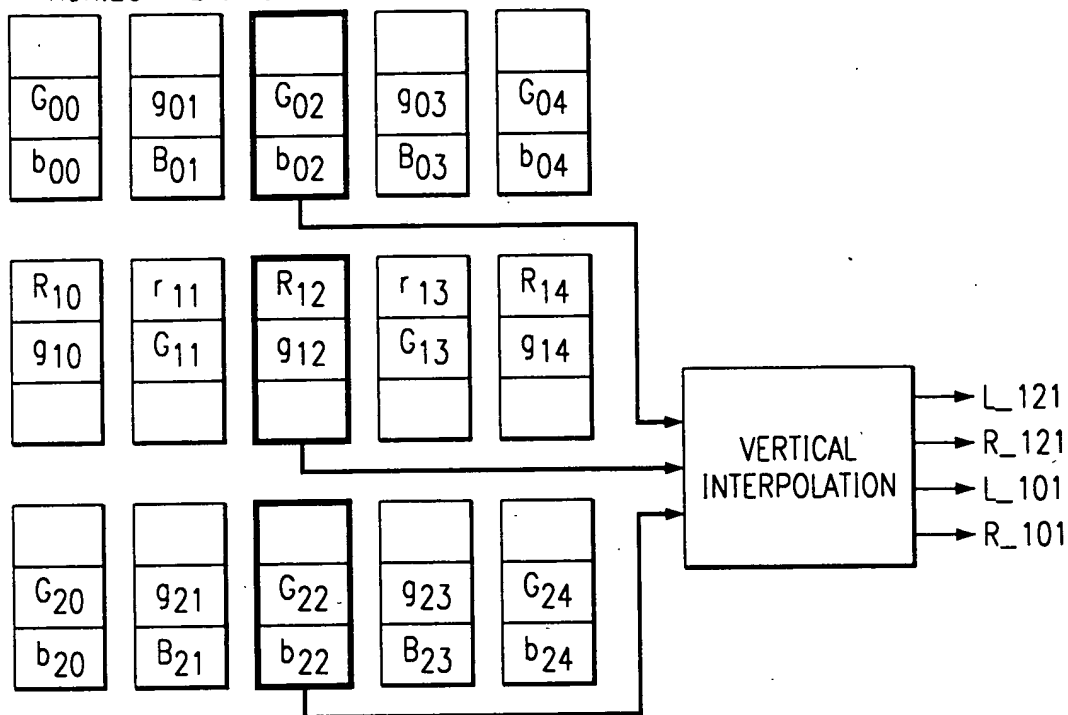
$\overline{ye_{00}}$	$\overline{cy_{00}}$	$\overline{ye_{01}}$	$\overline{cy_{01}}$	$\overline{ye_{02}}$	$\overline{cy_{02}}$	ye00	cy00	ye01	Cy01	Ye02	cy02
$\overline{g_{00}}$	$\overline{mg_{00}}$	$\overline{g_{01}}$	$\overline{mg_{01}}$	$\overline{g_{02}}$	$\overline{mg_{02}}$	g00	mg00	g01	mg01	g02	mg02
$\overline{ye_{10}}$	$\overline{cy_{10}}$	$\overline{ye_{11}}$	$\overline{cy_{11}}$	$\overline{ye_{12}}$	$\overline{cy_{12}}$	ye10	cy10	ye11	cy11	ye12	cy12
$\overline{g_{10}}$	$\overline{mg_{10}}$	$\overline{g_{11}}$	$\overline{mg_{11}}$	$\overline{g_{12}}$	$\overline{mg_{12}}$	G10	mg10	g11	Mg11	G12	mg12
$\overline{ye_{20}}$	$\overline{cy_{20}}$	$\overline{ye_{21}}$	$\overline{cy_{21}}$	$\overline{ye_{22}}$	$\overline{cy_{22}}$	Ye20	cy20	ye21	Cy21	Ye22	cy22
$\overline{g_{20}}$	$\overline{mg_{20}}$	$\overline{g_{21}}$	$\overline{mg_{21}}$	$\overline{g_{22}}$	$\overline{mg_{22}}$	g20	mg20	g21	mg21	g22	mg22

$$a = g_{11} + Mg_{11} - ye_{11} - cy_{11}$$

$$\left\{ \begin{array}{l} \overline{ye_{11}} = ye_{11} + \frac{a}{4} \\ \overline{cy_{11}} = cy_{11} + \frac{a}{4} \\ \overline{g_{11}} = g_{11} - \frac{a}{4} \\ \overline{mg_{11}} = Mg_{11} - \frac{a}{4} \end{array} \right.$$

FIG. 10f

## HORIZONTAL INTERPOLATION OUTPUTS



NOISE FILTER = OFF

$$\left. \begin{aligned} L_{121} &= R_{12} \\ R_{121} &= g_{12} \\ L_{101} &= \frac{G_{02} + G_{22}}{2} \\ R_{101} &= \frac{b_{02} + b_{22}}{2} \end{aligned} \right\}$$

NOISE FILTER = ON

$$\left. \begin{aligned} L_{121} &= R_{12} - g_{12} + \frac{G_{02} + 2g_{12} + G_{22}}{4} \\ R_{121} &= \frac{G_{02} + 2g_{12} + G_{22}}{4} \\ L_{101} &= \frac{G_{02} + G_{22}}{2} \\ R_{101} &= \frac{b_{02} + b_{22}}{2} \end{aligned} \right\}$$

FIG. 10g

130637

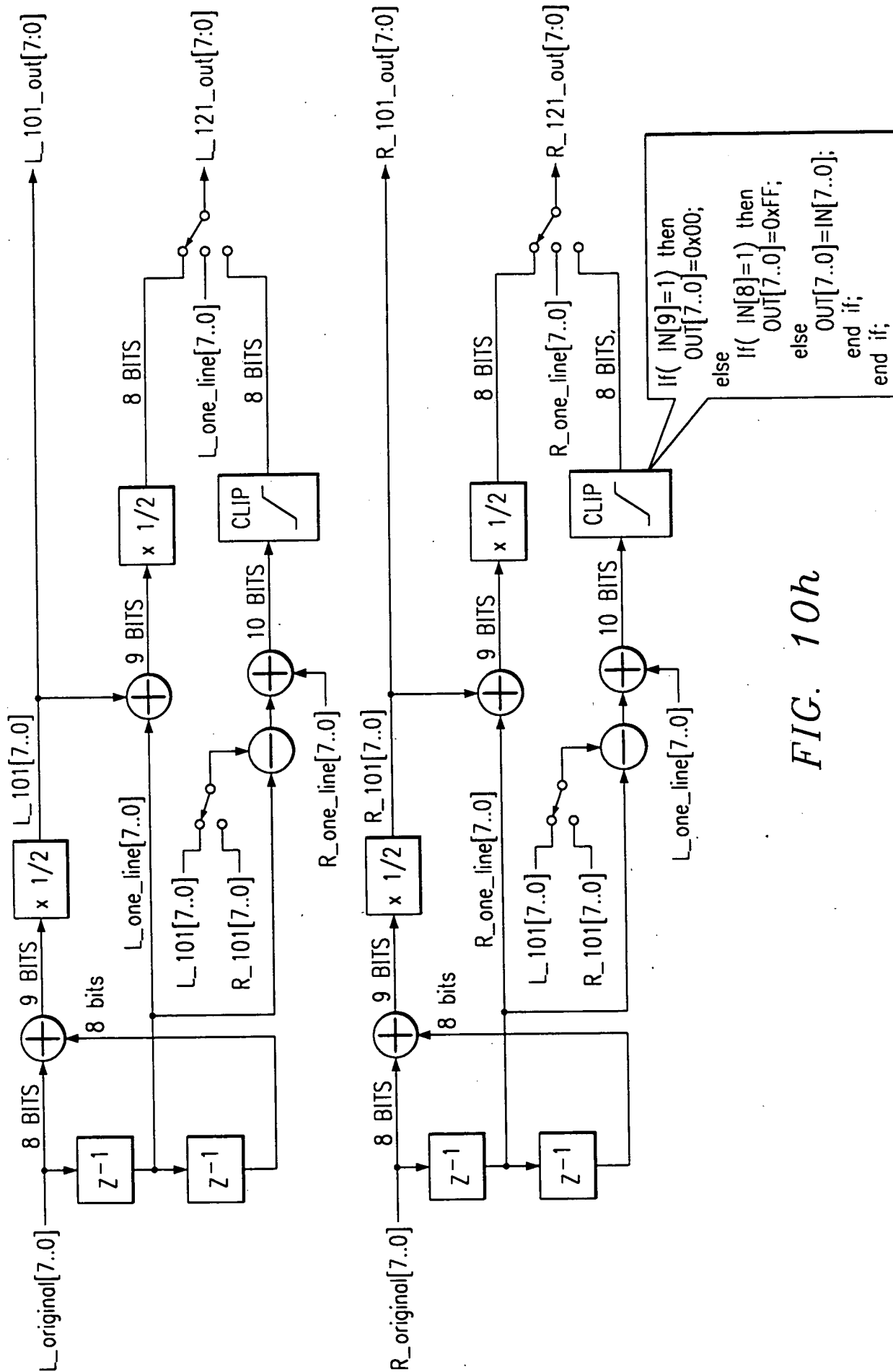


FIG. 10h



$$\left\{ \begin{array}{l} R/Ye = R_{12} - g_{12} + \frac{G_{02} + 2g_{12} + G_{22}}{4} \\ G/Mg = \frac{G_{02} + 2g_{12} + G_{22}}{4} \\ g/Cy = \frac{G_{02} + G_{22}}{2} \\ B/Cy = \frac{b_{02} + b_{22}}{2} \end{array} \right.$$

FIG. 10j

FIG. 10j

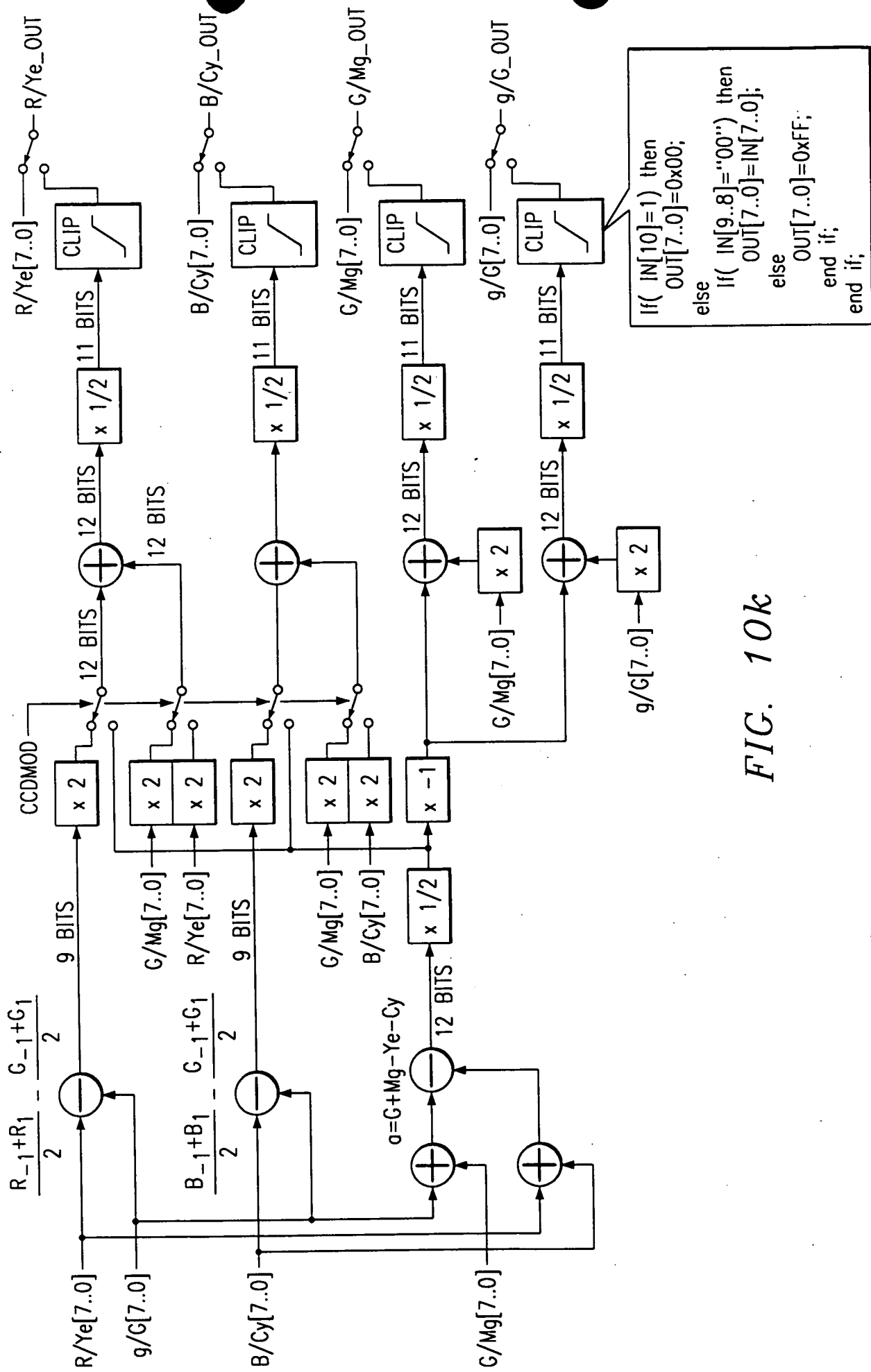


FIG. 10k





170837

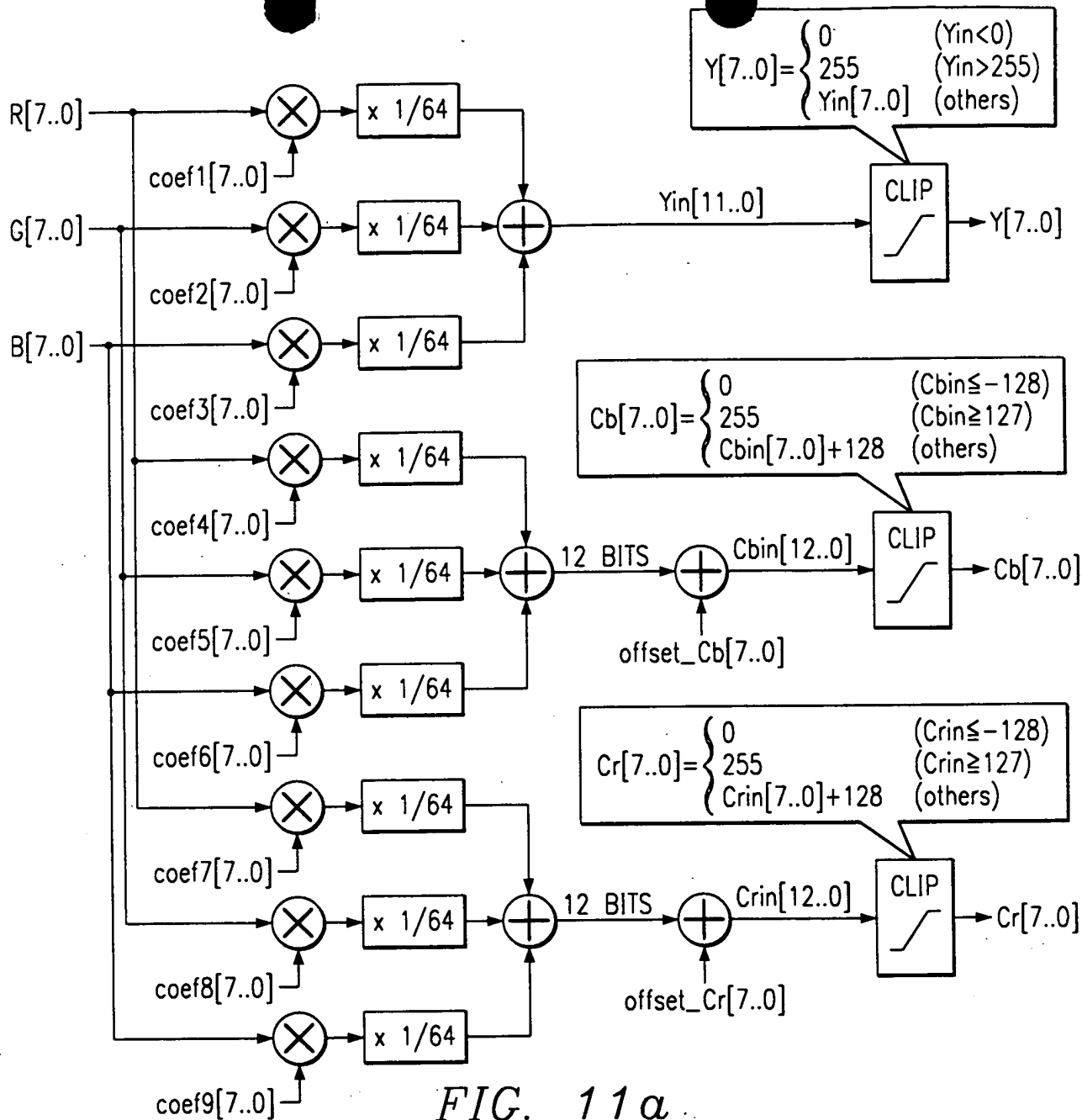


FIG. 11a

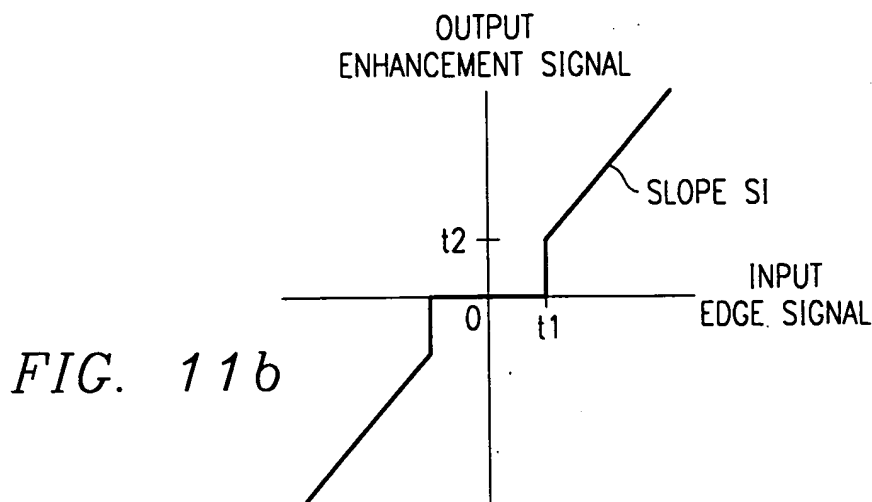


FIG. 11b

FIG. 12a

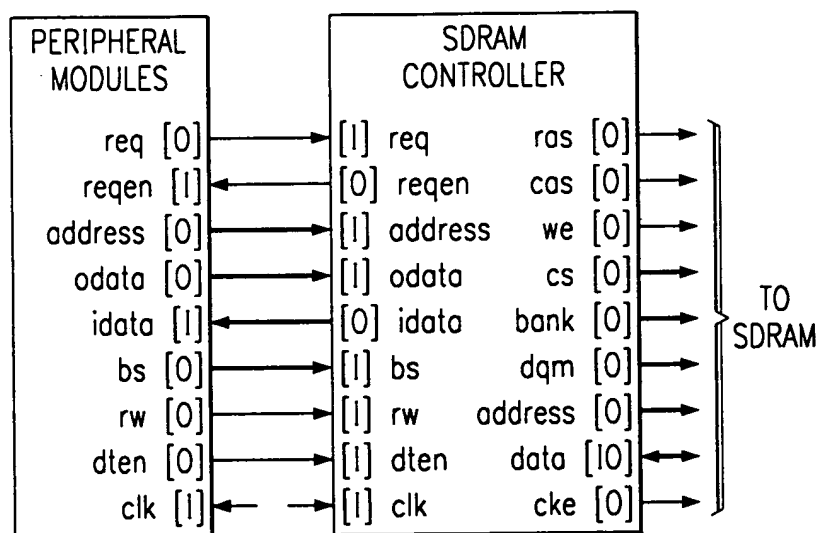
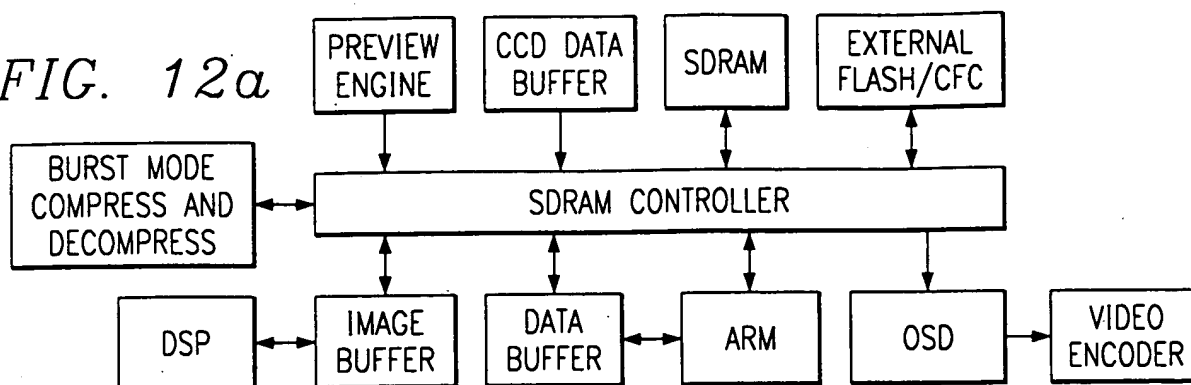


FIG. 12b

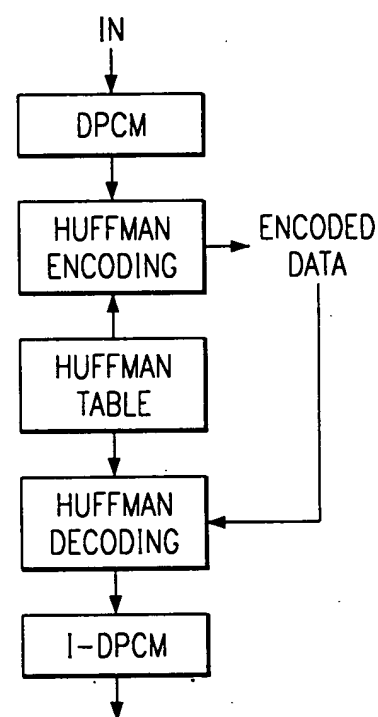


FIG. 13b

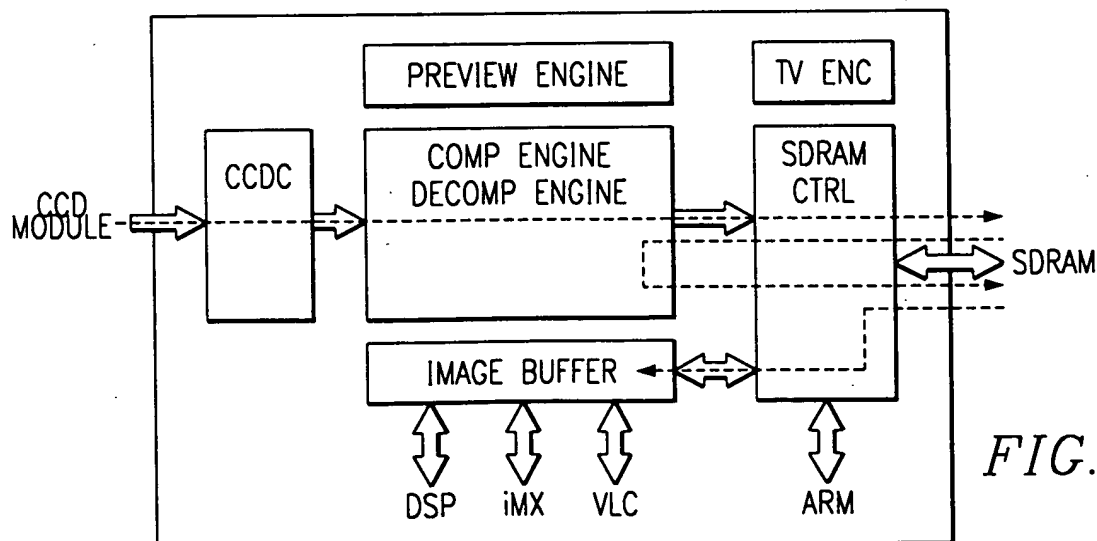
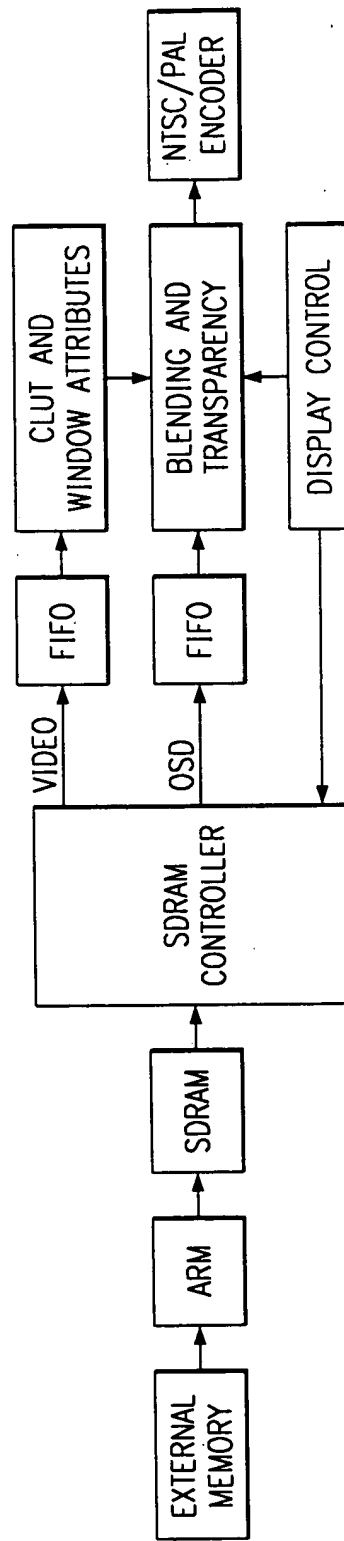
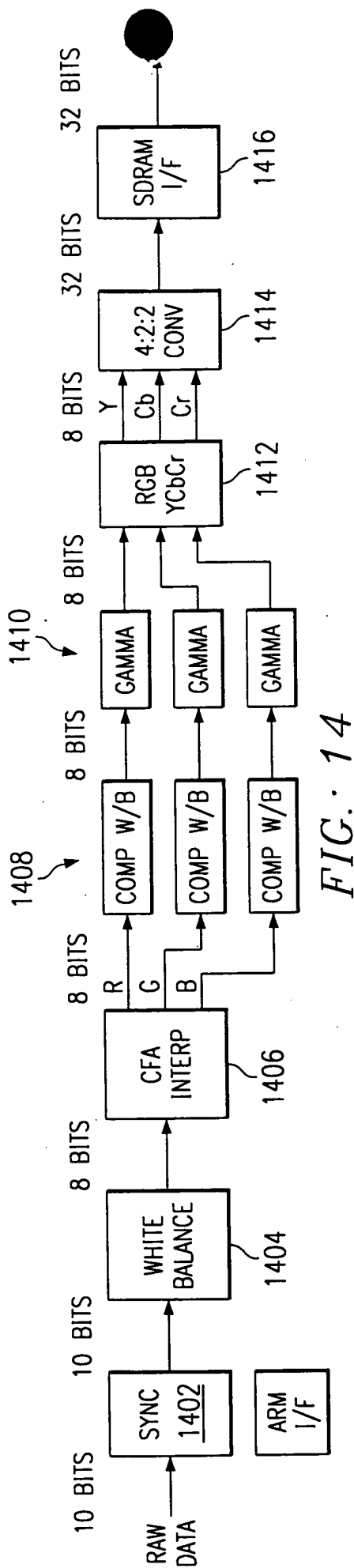


FIG. 13a



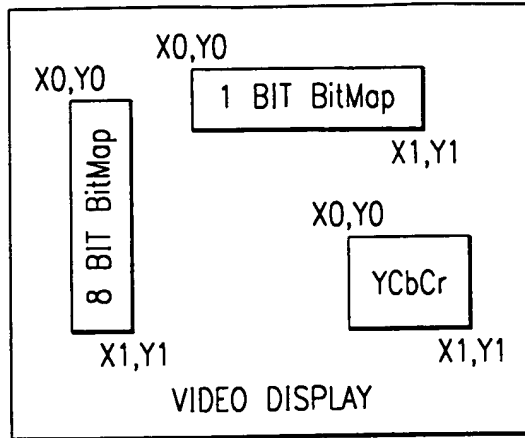


FIG. 16

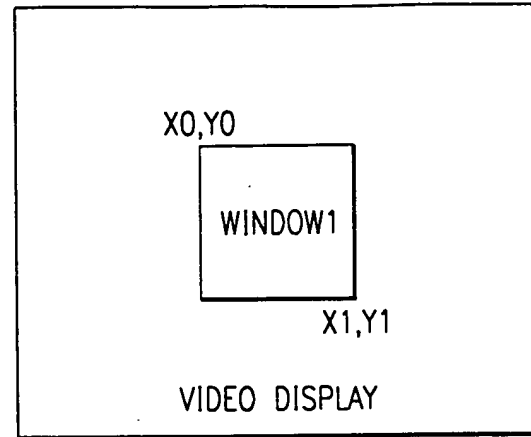


FIG. 17

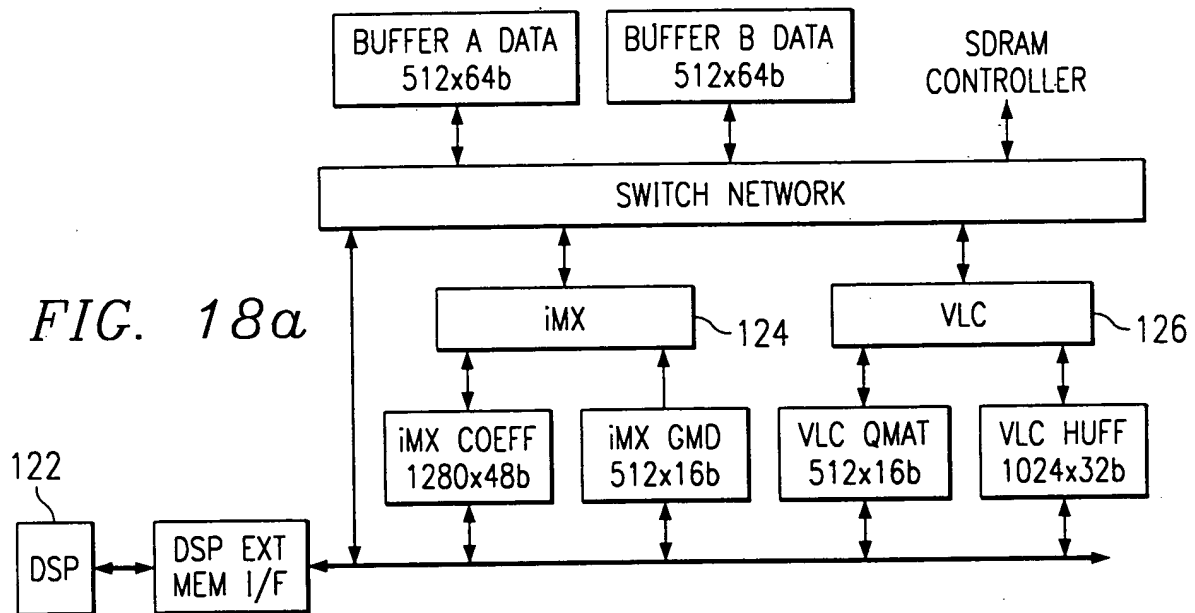
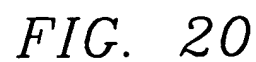
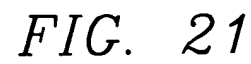
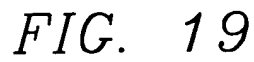


FIG. 18a

PROGRAM SPACE (MP/MC_=0)		DATA SPACE	
0000h	RESERVED (OVLY=1)	0000h	MMR
0080h	ON-CHIP 32kword DARAM (OVLY=1)	0060h	SCRATCH-PAD RAM
7F80h	VECTORS	0080h	ON-CHIP 32kword DARAM (OVLY=1)
8000h	EXTERNAL	7F80h	RESERVED
C000h	RESERVED	8000h	EXTERNAL
FF80h	RESET VECTOR	C000h	RESERVED
FFFFh		FFFFh	

FIG. 18b



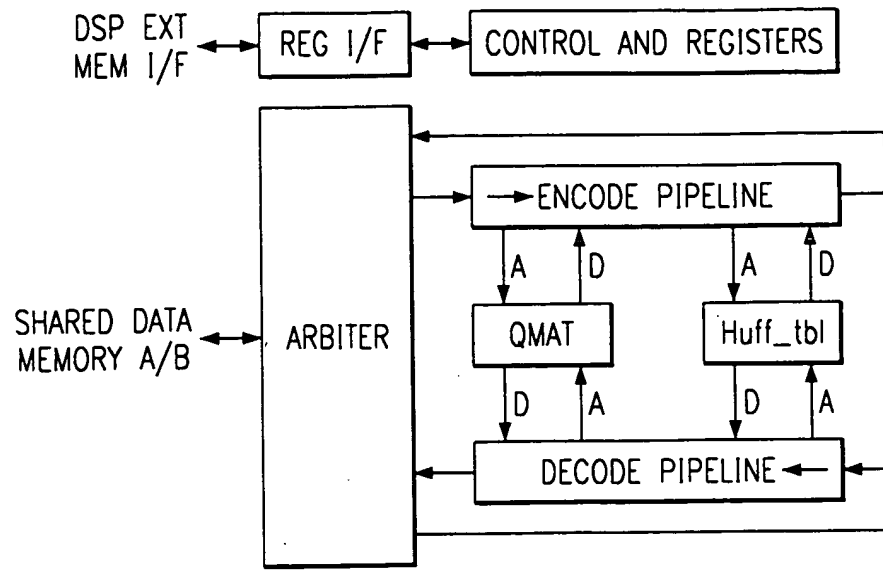


FIG. 22

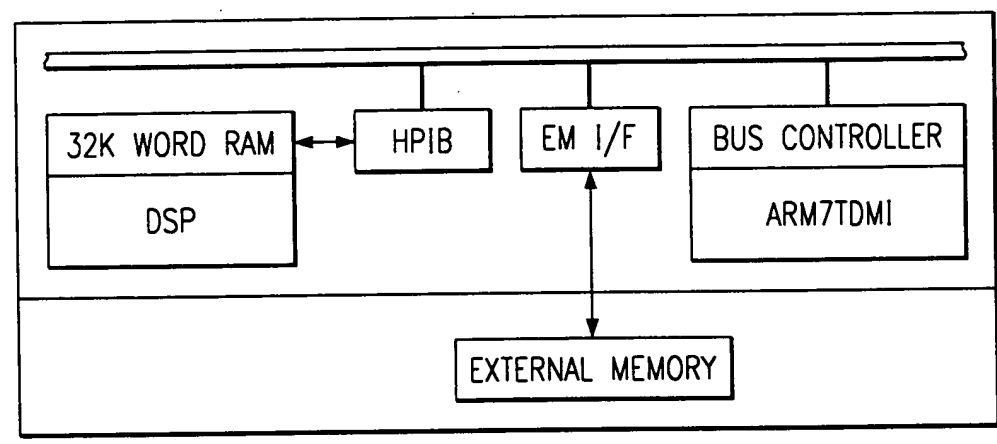


FIG. 23a

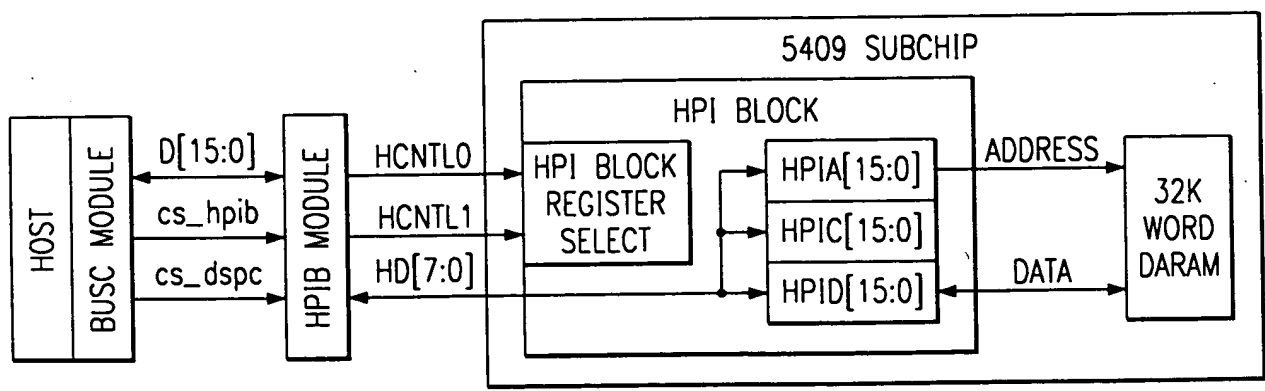


FIG. 23b

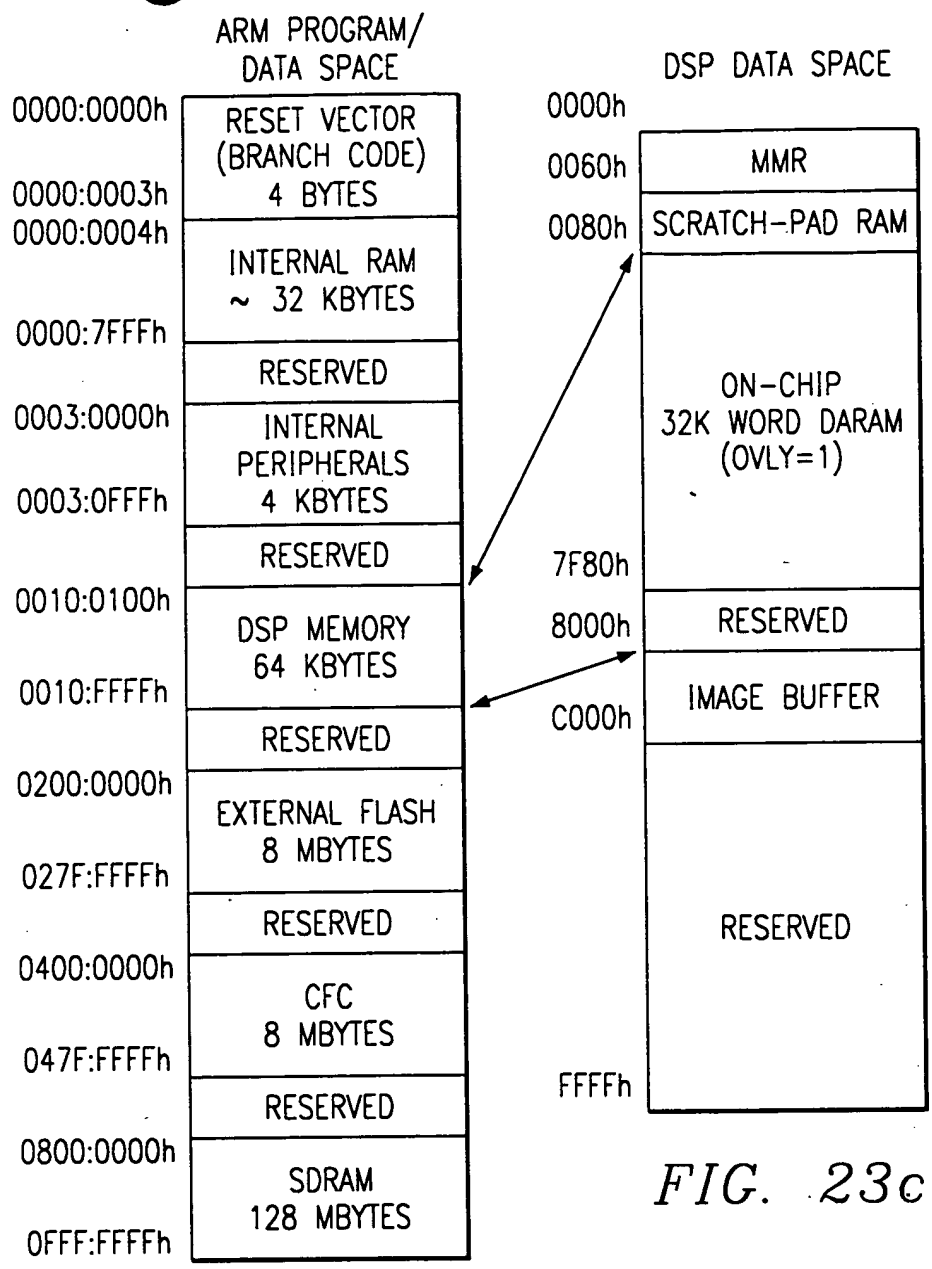
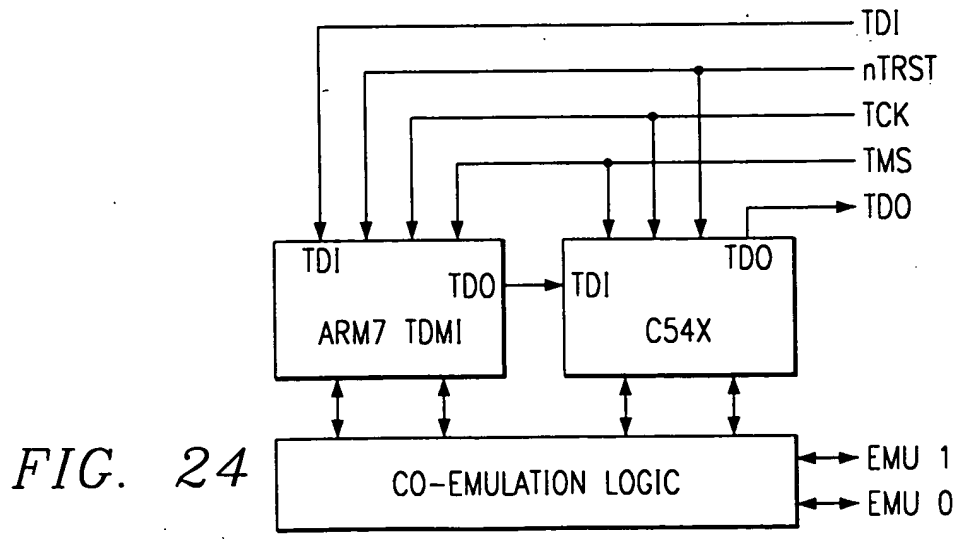
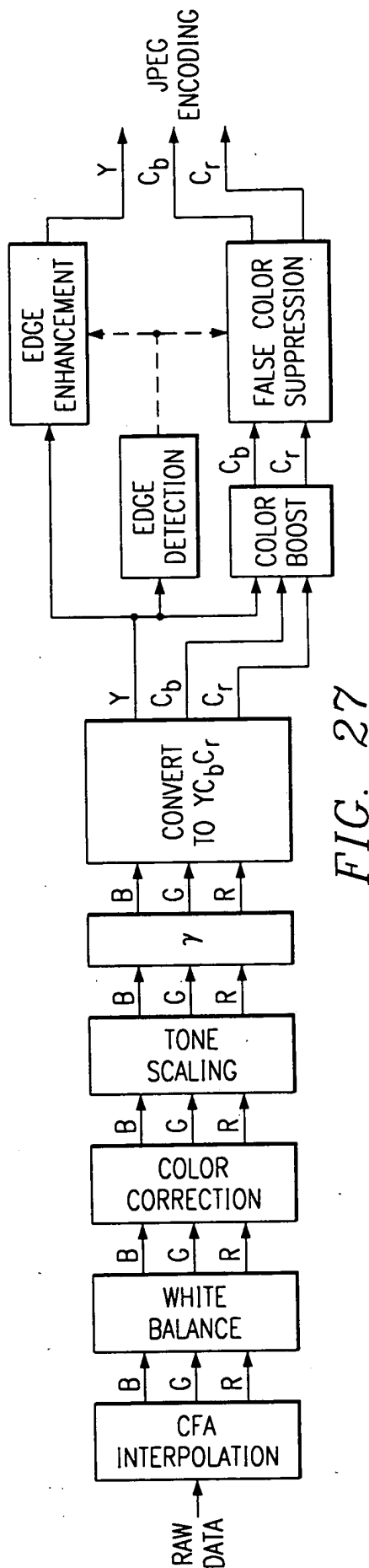
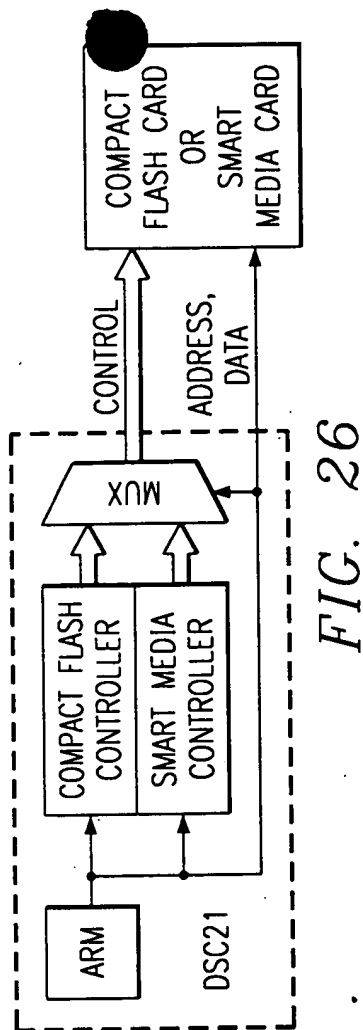
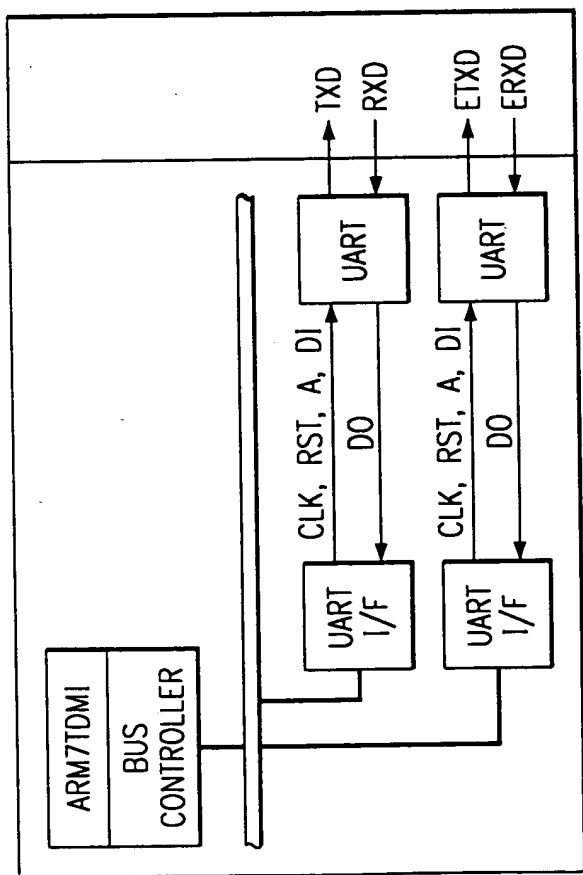


FIG. 23c







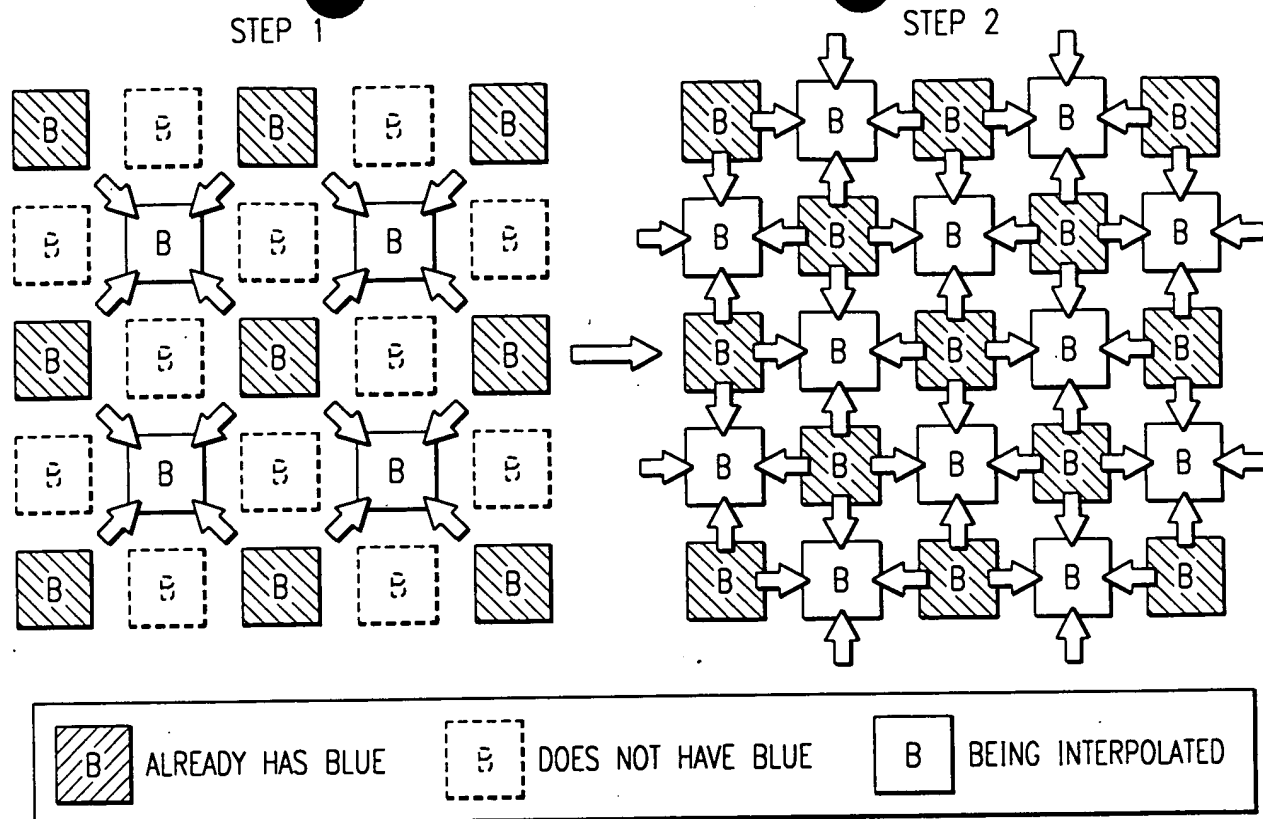


FIG. 28

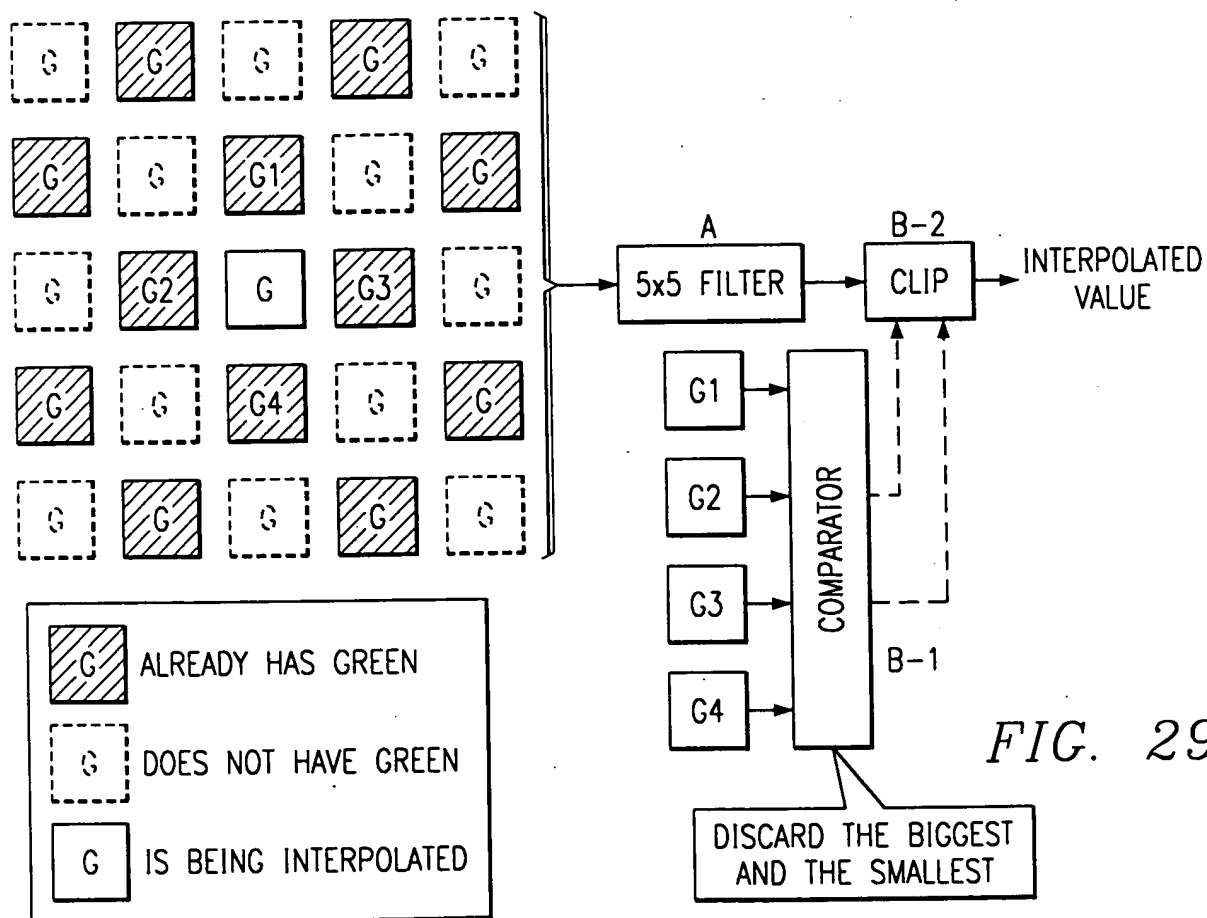
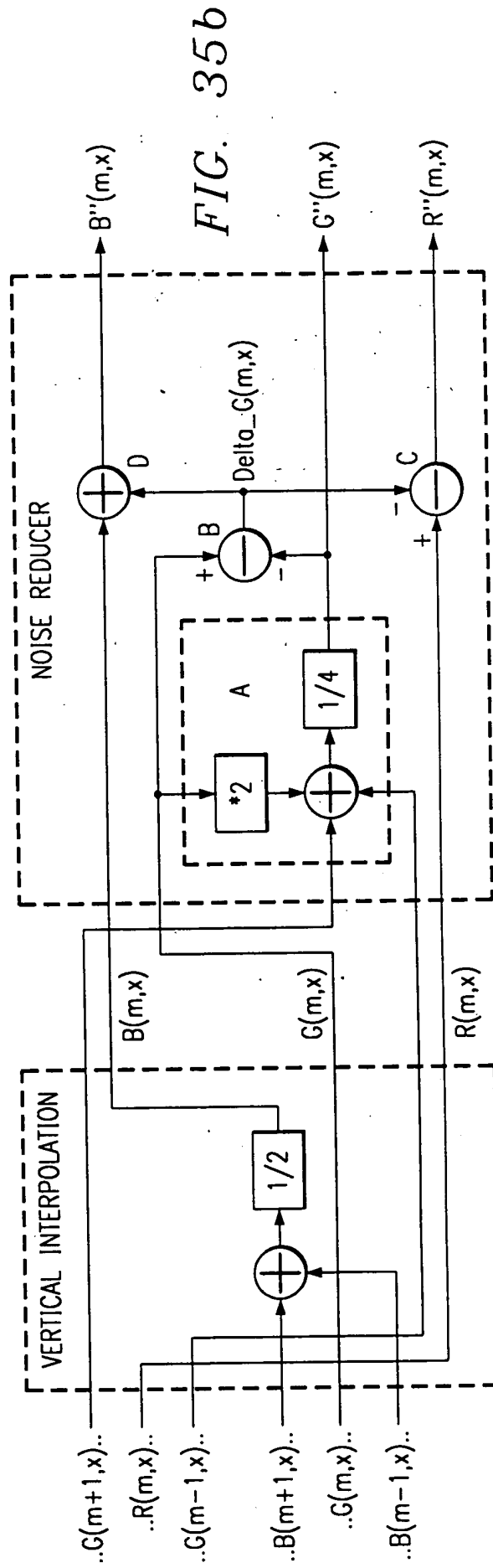
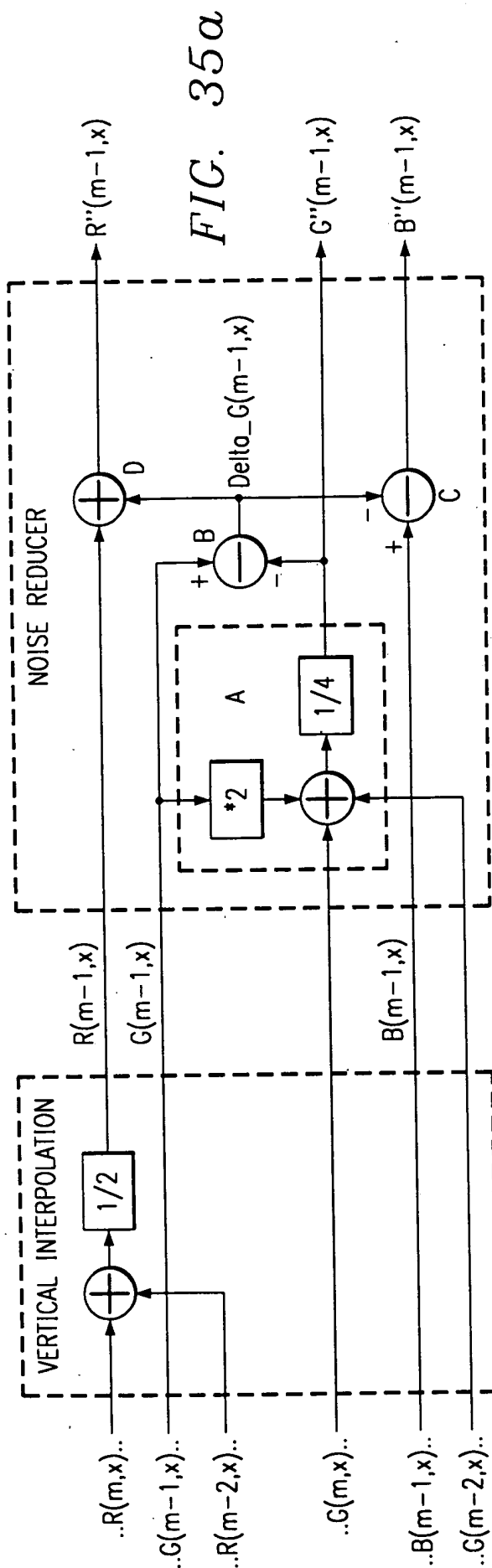
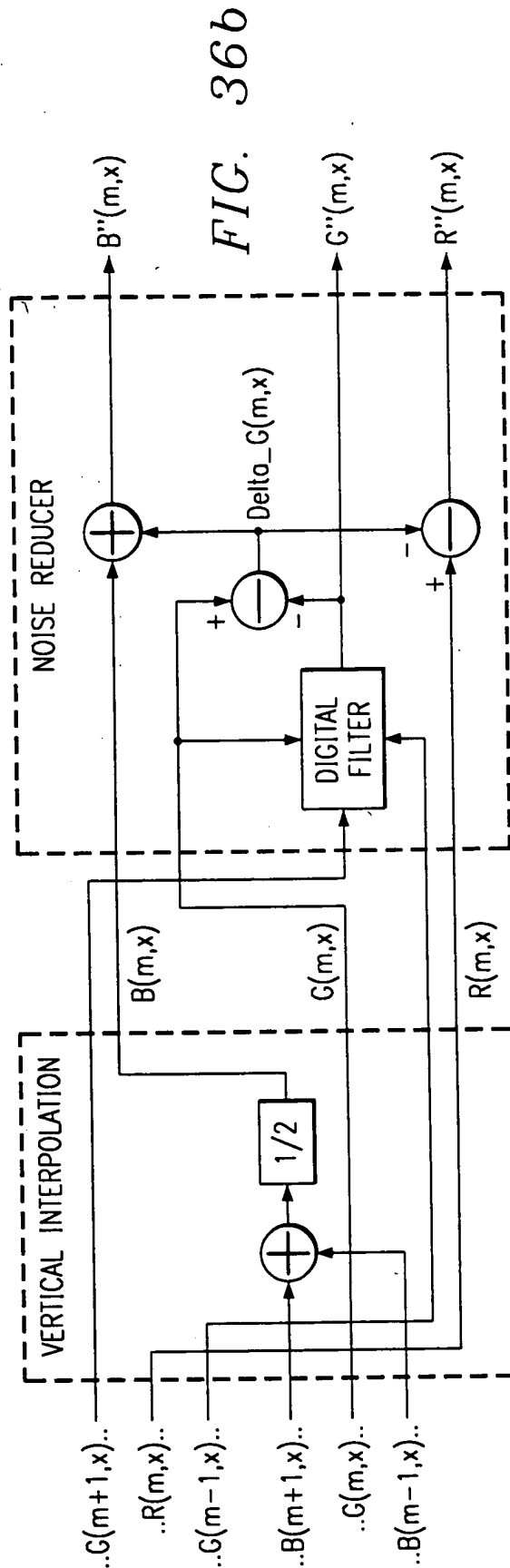
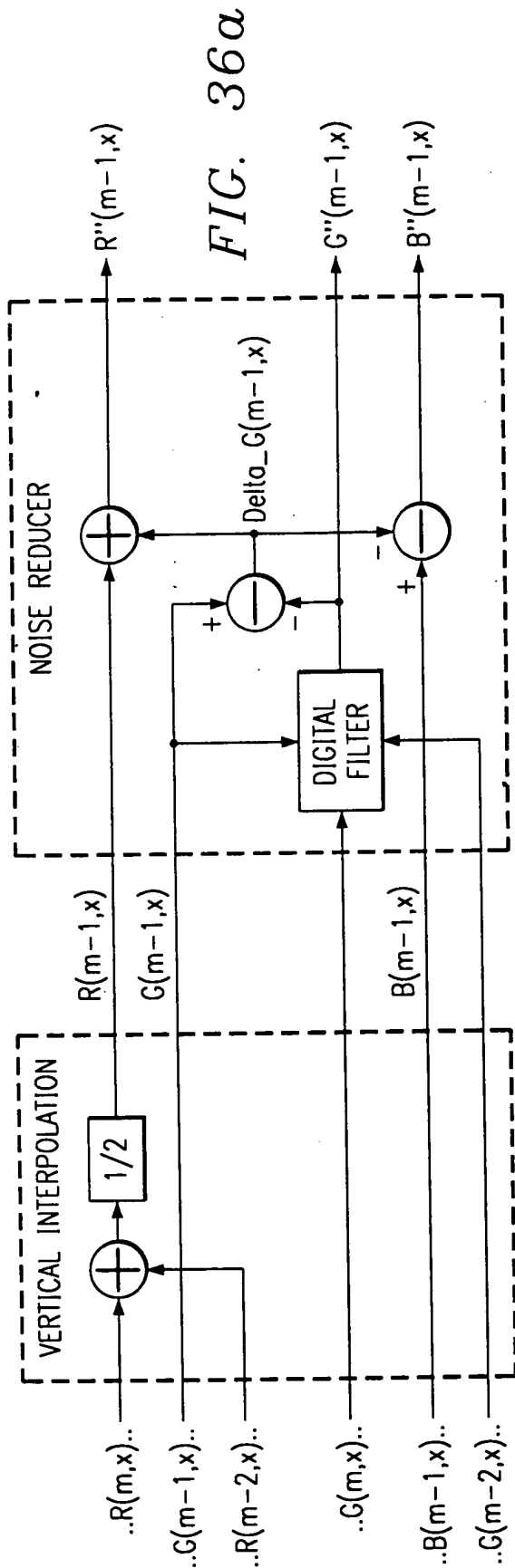


FIG. 29









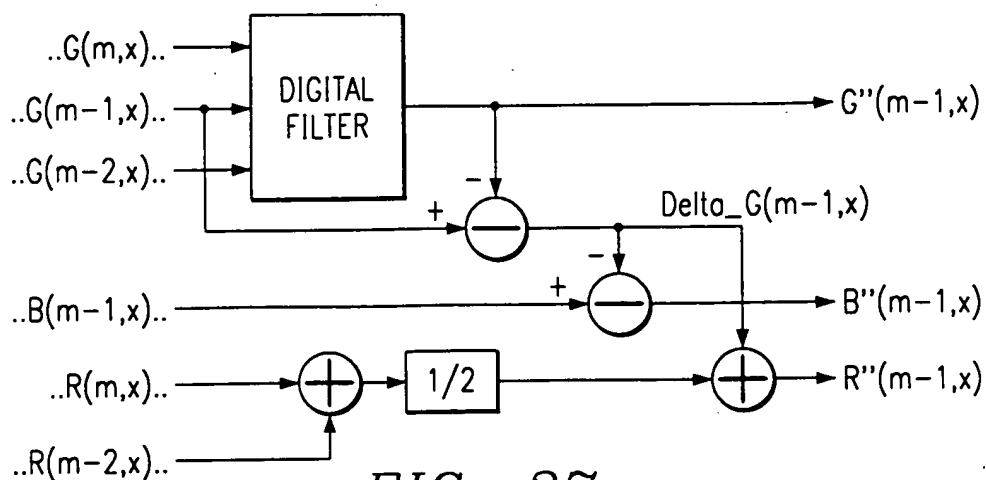


FIG. 37a

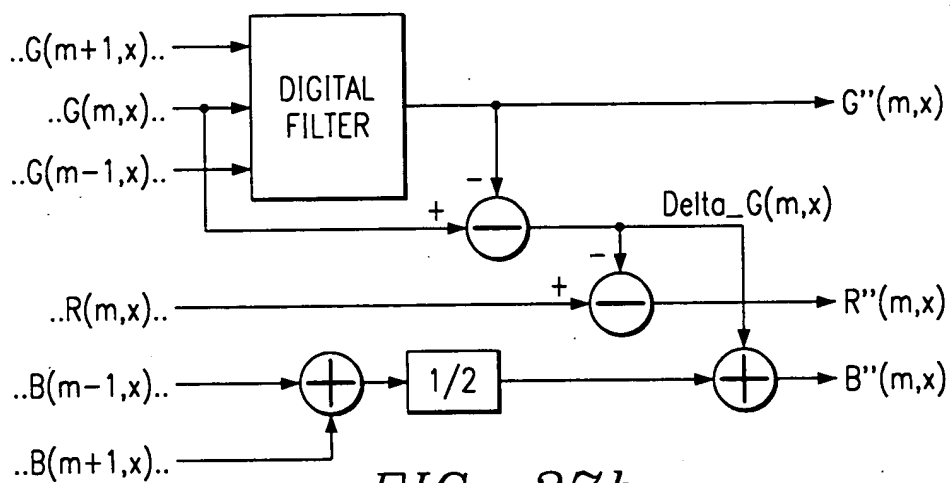


FIG. 37b

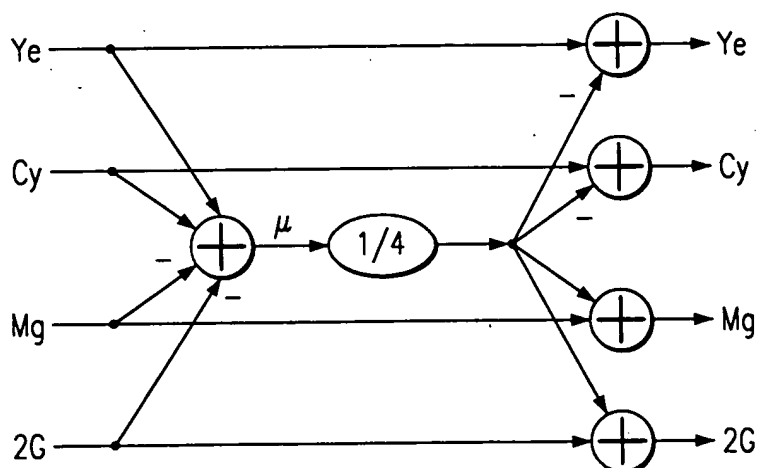


FIG. 38

0674432-130000

FIG. 39a

FIG. 39b

FIG. 40

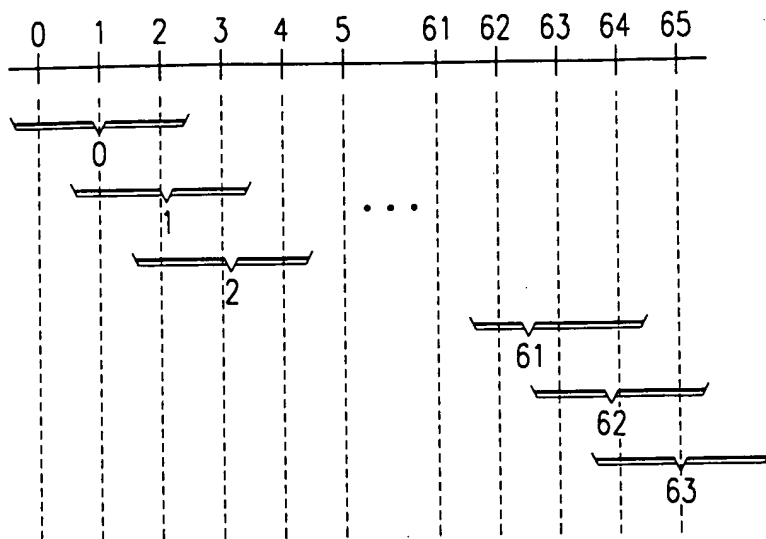


FIG. 41a

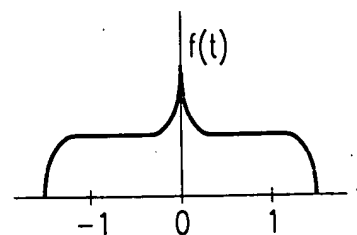


FIG. 41b

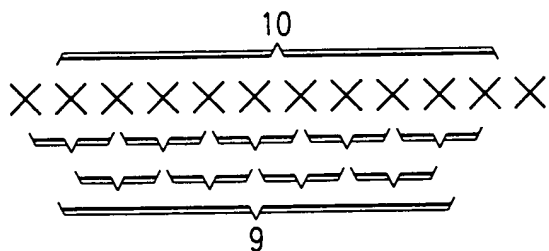


FIG. 42a

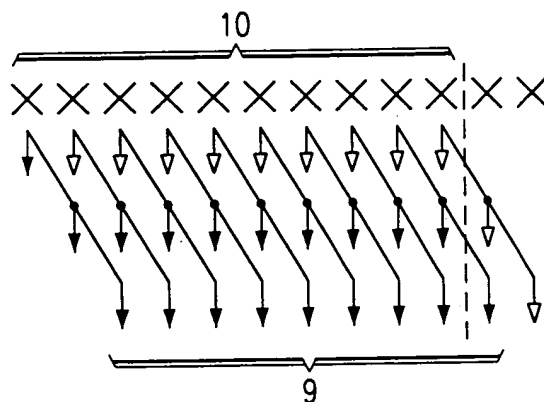


FIG. 42b

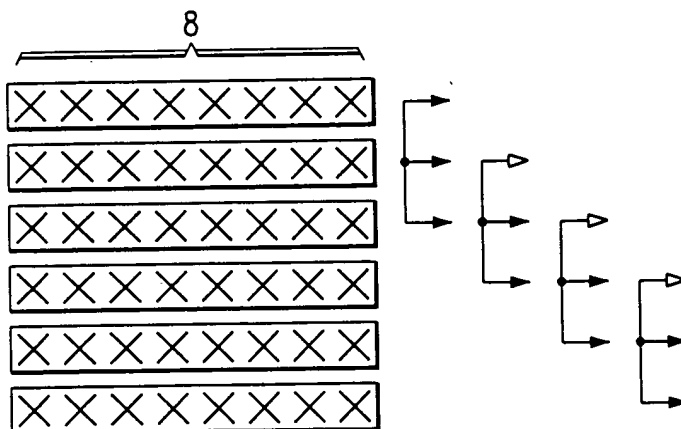


FIG. 42e



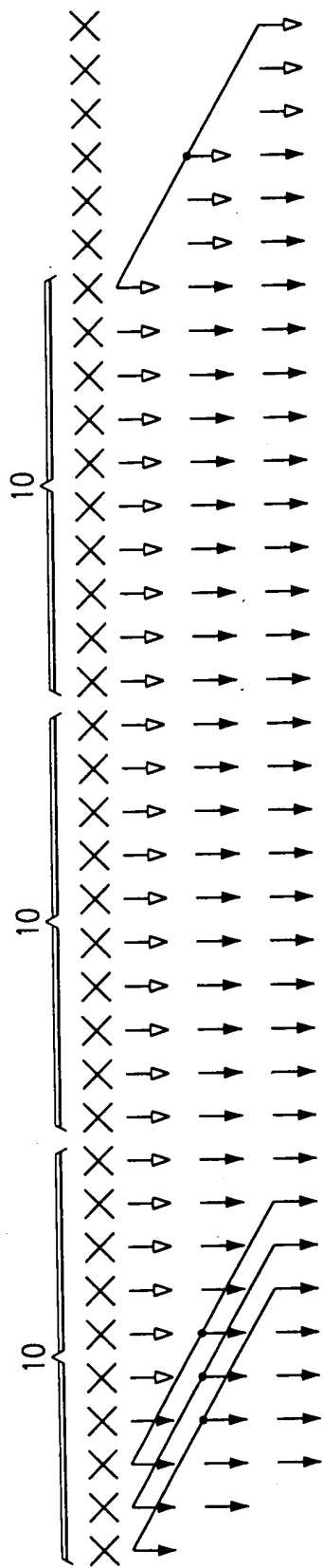


FIG. 42c

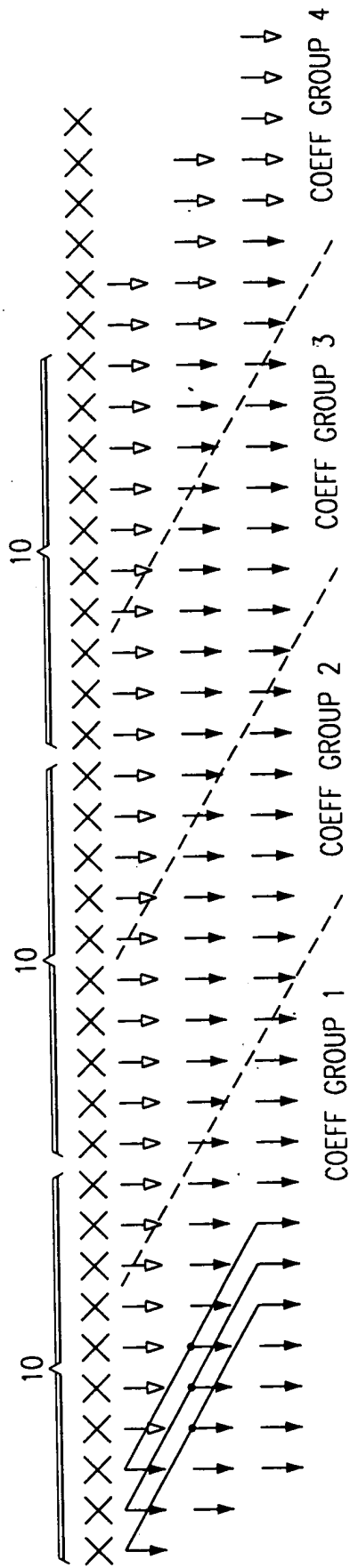


FIG. 42d

1. The first step is to identify the problem or goal. This involves understanding the current situation, identifying the key issues, and determining the desired outcome.

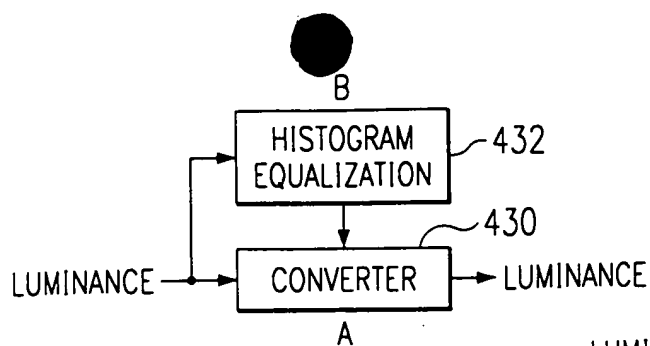


FIG. 43

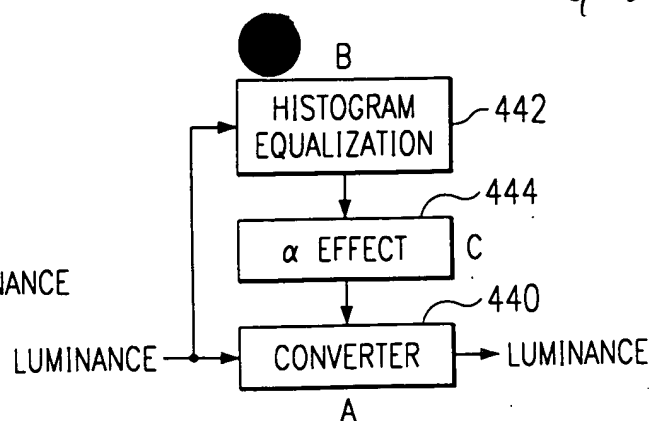


FIG. 44

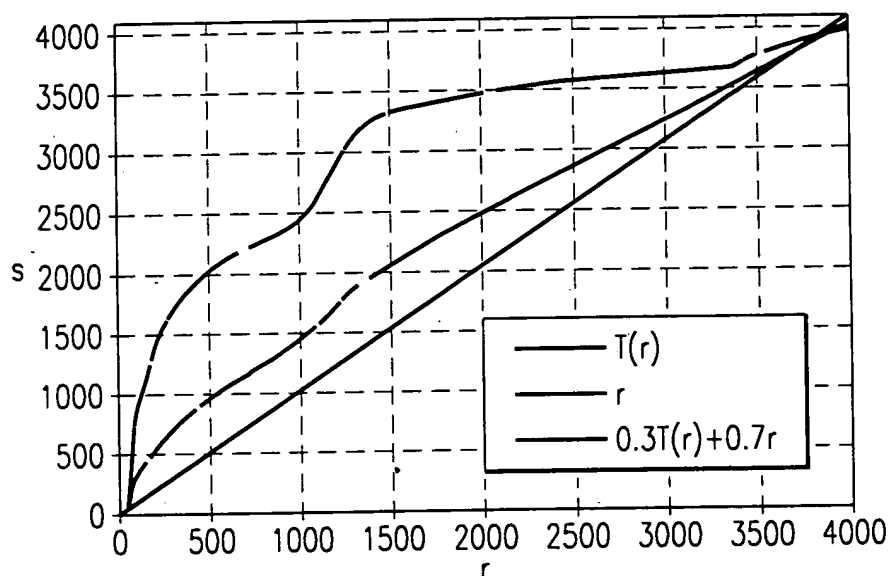


FIG. 45

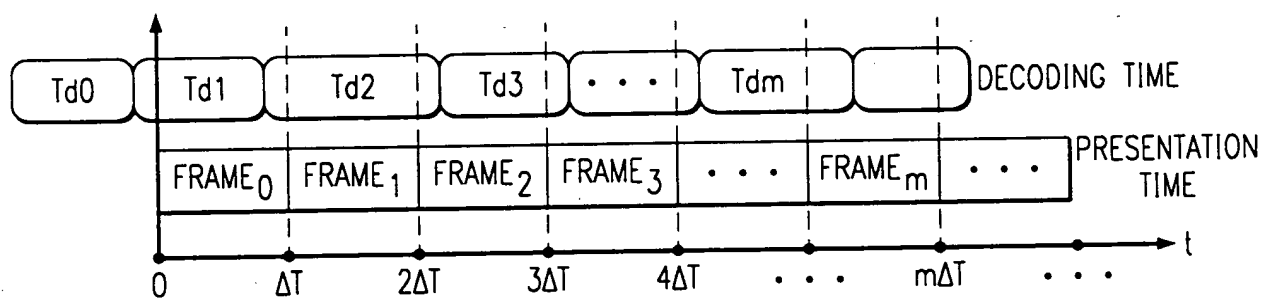


FIG. 46a

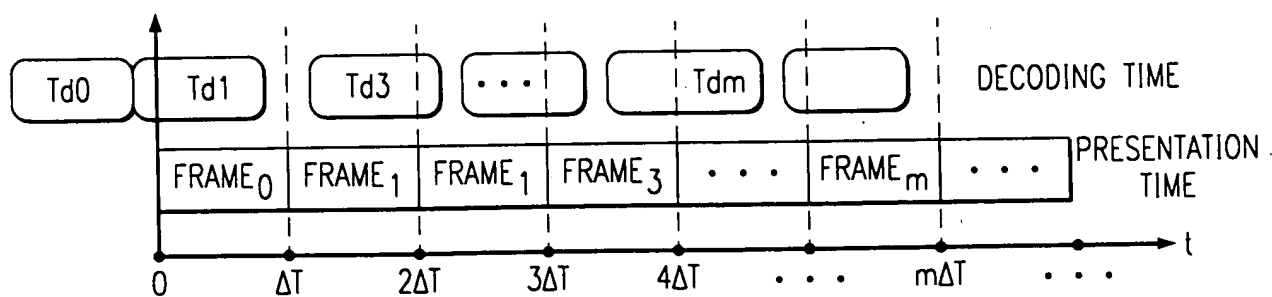


FIG. 46b

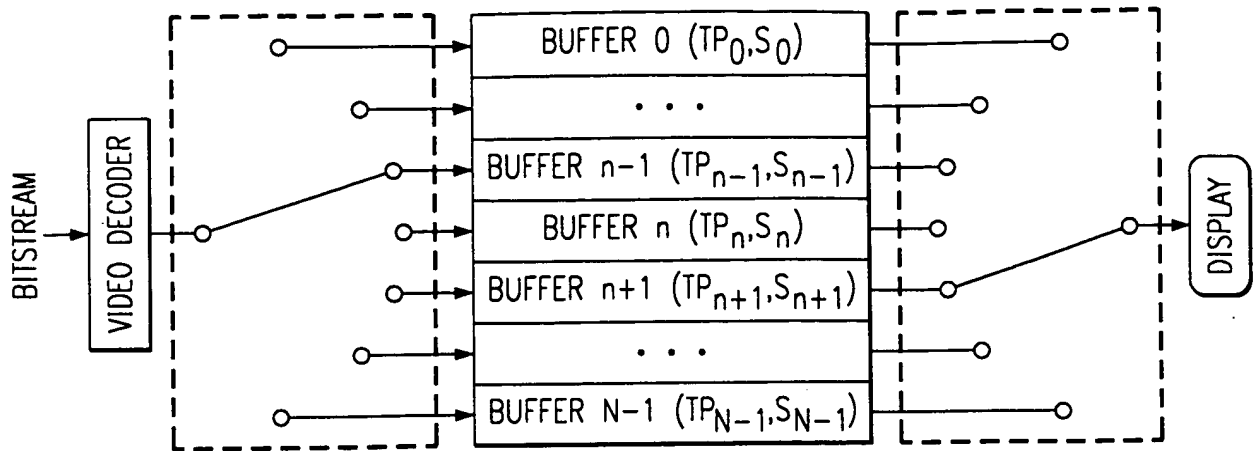


FIG. 47

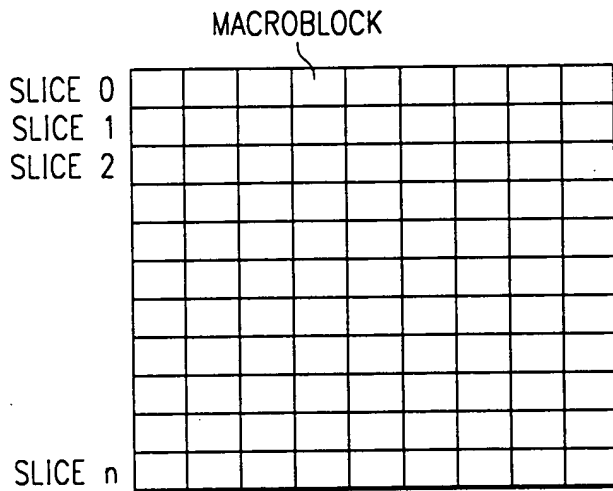


FIG. 49

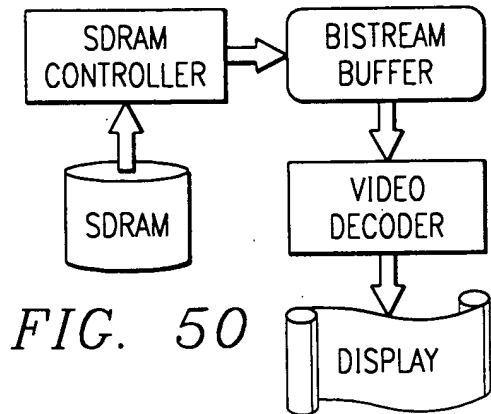


FIG. 50

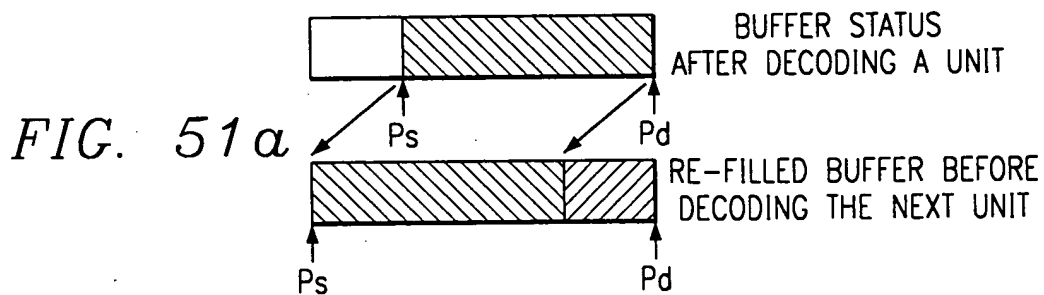


FIG. 51a

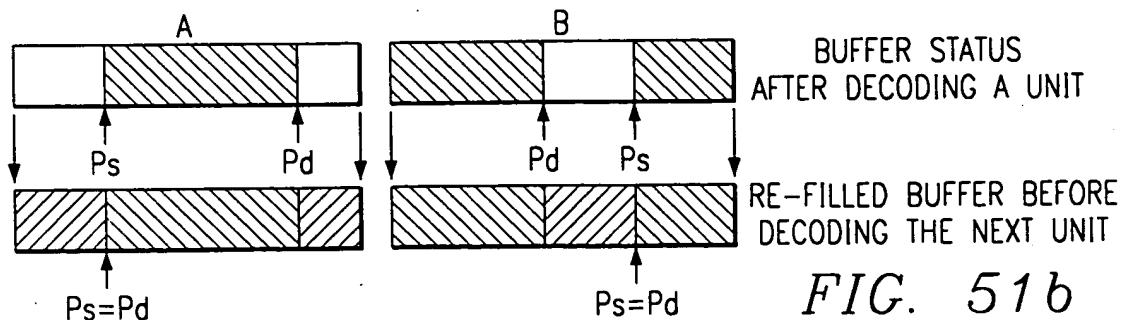
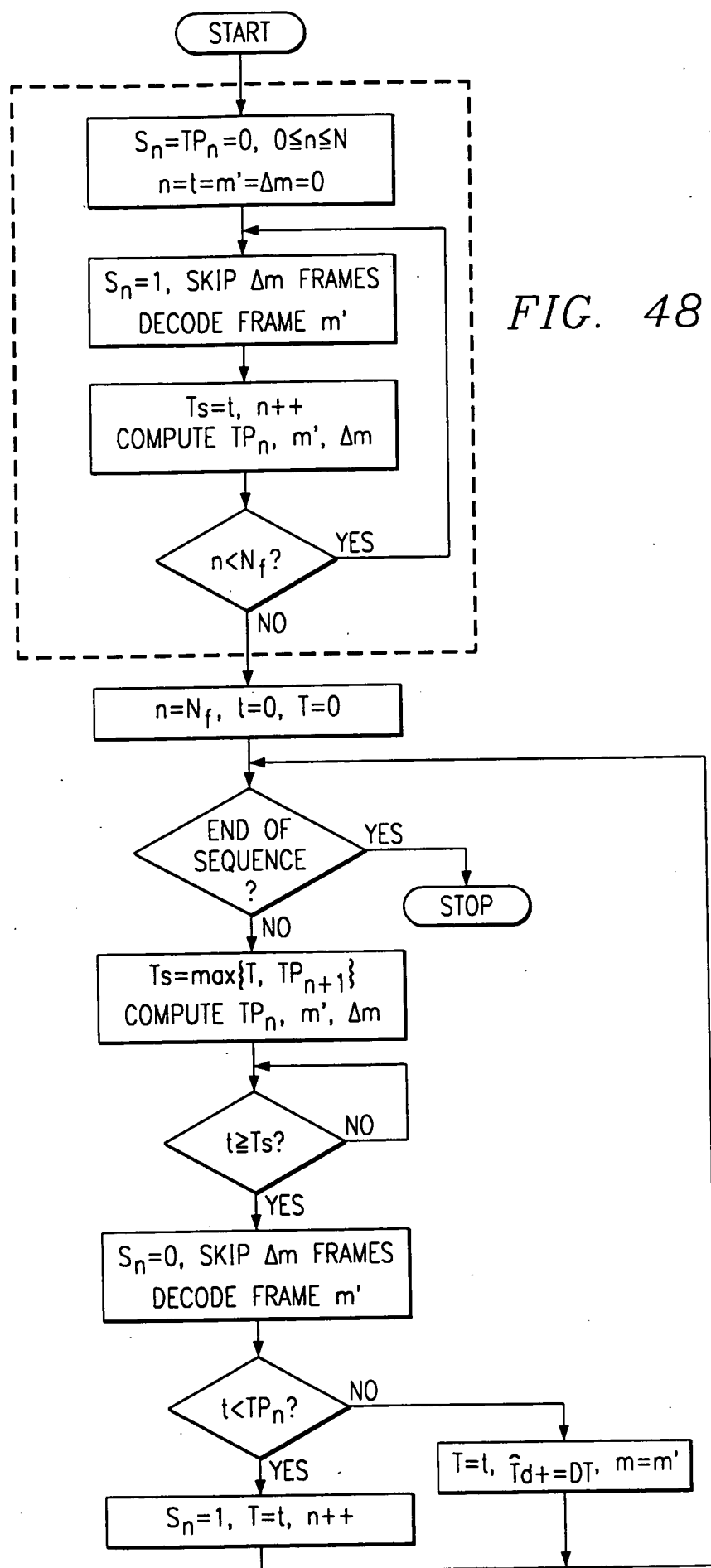


FIG. 51b



370837

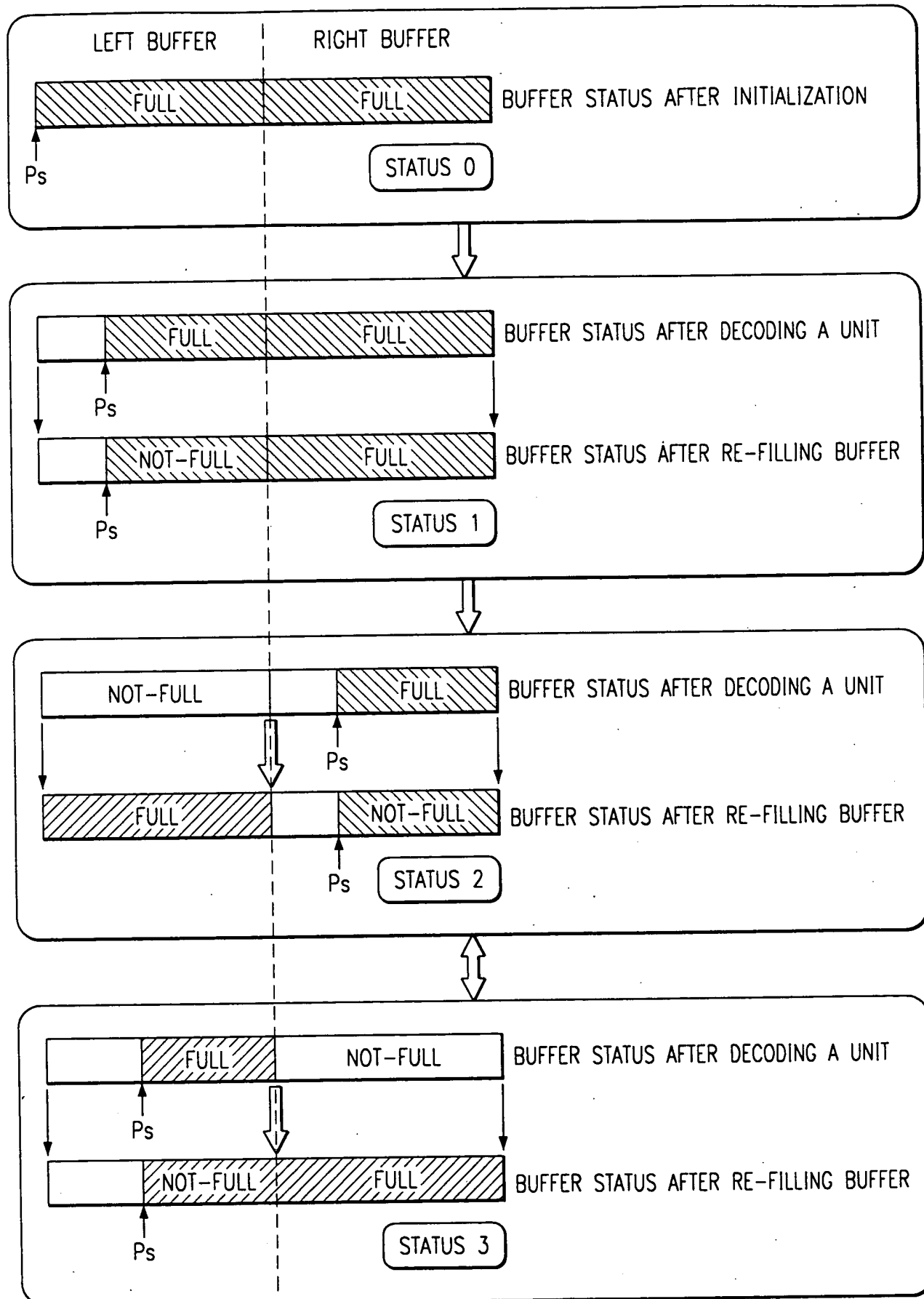


FIG. 52